



ASHRAE

Hawaii Chapter

HE EA MAKAMAE

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

SY 2009-2010, Issue 1

Honolulu, Hawaii, August 2009

PRESIDENT'S MESSAGE

By **Albert Hahn**

I am excited to serve you as the ASHRAE Hawaii Chapter president this 2009-2010 year. We have assembled a new group of Board of Governors and committee chairs with new and exciting ideas. We are excited about a new position in ASHRAE, YEA, Young Engineers of ASHRAE. Alayna Shima, the YEA Chair, is planning several social events to encourage our young engineers to participate in our chapter. Bill Lee is the new Programs chair and promises to deliver a selection of programs for the seasoned engineer or right off the cart. This year's seminar will be a forum on domestic hot water heating with a Do's and Don'ts sessions hosted by various hot water heating vendors. But that's not all the news that I need to introduce you to...

Did I mention we will also be changing the venue? This year's meetings will be held at Dave and Busters. The cost will be reduced to \$35 for members and \$40 for non-members. There is a private party room on the second floor that includes a built in a/v system. Parking is free and we plan to continue the tradition of two complimentary drinks.

It is my goal to have more of your participation in ASHRAE this year. Together I believe we can improve our industry and strengthen our chapter. Please let me know if you have any comments or suggestions for services that you would like us to provide or any ideas to improve our chapter.

Thank you for all your support and I will see you all at this year's events.

2009-10 Officers

President	Albert Hahn P.E.
President Elect	Dicson Aggabao
Vice President	Michael Chang
Secretary	Barry Jim On P.E.
Treasurer	Paul Fukunaga P.E.

2009-10 Board of Governors

Past President	Joseph Ting, P.E.
Member	Kevin Saito, P.E.
Member	William Lee, P.E.
Member	Paul Scott

2009-10 Committee Chairs

Attendance & Reception	Roland Suzuki
Chapter Tech Transfer	Dicson Aggabao
Chapter Program	William Lee P.E.
Refrigeration	Scott La Beau
Technology Awards	Kevin Saito P.E.
Historical/ Long Range Planning	Joseph Ting P.E.
Honors & Awards	Kenneth Richardson
Membership Promotion	Mofazzal Mir
Newsletter	Michael Chang
Student Activities	Paul Fukunaga P.E.
Research Promotion	Paul Scott
Young Engineers of ASHRAE	Alayna Shima
Government Affairs	Mark Yamamoto

September Monthly Meeting on Thursday, Sept. 10, 2009 - Dave and Busters – 6:00 p.m.

Do and Don't: **VFR Myths, Legends and Half-truths**

Bobby Hahn

Main Program: **Infectious Disease and Risk Management**

Marlene Linders

RSVP: Roland Suzuki, Roland@heide-cook.com

Payment: \$35 member / \$40 non-member / \$45 at the door to ASHRAE Hawaii Chapter

P.O. Box 3916, Honolulu HI 96812 or via "PayPal" button at hawaii.ashraechapters.org.



Main Program: Infection Control Risk Assessment 101

Who: Marlene Linders is the President and CEO of PHILDERS GROUP INTERNATIONAL INC—Infectious Disease, and Risk Management Consultants. She is also the Executive Director for The Linders Health Institute™ which is an entity for education and research for Infectious Diseases and construction practices.



Philders Group International Inc. provides consulting services, education, and corporate risk management programs for Infectious Disease to architects, engineers, HVAC, Contractor and health care industries. They work with clients as a medical resource, provide ongoing education and compliance programs, allowing clients to function at lower liability and manage risk.

What: *Infection Control Risk Assessment 101:*

Understanding the Basics of Liability and Risk During Health Care Construction

Marlene will share with the Chapter an experienced expert's presentation on:

- The shifting financial winds of healthcare
- How Healthcare Associated Infections are changing the safety and financial factor for hospitals
- ICRA—Infection Control Risk Assessment and the ICRA Matrix for construction
- The impact of ventilating air during construction as an environmental risk to workers and patients
- Droplet Dynamics
- Infectious Disease policy for contractors/subcontractors as part of safety program



Do and Don't Technical Session: Variable Refrigerant Flow (VFR)

Last year the Hawaii Chapter launched a well received new technical session known as DO and DON'T. It is an open forum for subject matter experts to educate the members on various subjects in our industry.

Mahalo goes out to Rory Itano from Mitsubishi Electric & Electronics USA, Inc. who has contributed the first Do and Don't speaker for ASHRAE Hawaii.

Bobby Hahn will be presenting a Myths, Legends and Half-Truths for Variable Refrigerant Flow (VFR) systems with a discussion of items such as Diversity, Refrigerant Code, Back up Capacity, Efficiency, Design and Controls.



Bobby Hahn
Manufacturer Sales Representative
Mitsubishi Electric & Electronics USA

Education:	<ul style="list-style-type: none"> • Cal State Long Beach, BS in Business/Marketing • Mitsubishi HVAC Tech School, Nagoya, Japan • Carrier Technical Product Development, City of Industry, CA • Lindsay Cooper School of Refrigeration, Irving, TX
Memberships:	<ul style="list-style-type: none"> • HARDI, IHACI, ARI, ASHRAE, MANA • Board of Directors for the Institute of Heating and Air Conditioning Industries
Job Experience:	14 years in the HVACR Industry, DX Systems, Chilled Water, Air Quality, Filtration, and Controls.
Interests:	Golf, surfing



HISTORICAL

By Joseph K. Ting, P.E., P.Eng.

As I was touched with the passing of the late Senator Teddy Kennedy, it has inspired me to scribble the beginning of our chapter history. Attached herewith is the article of our Chapter History to be in ASHRAE Insights for October. It took about 2-1/2 years for Hawaii Chapter to be chartered.

Best regards,
Joseph Ting

ASHRAE Hawaii Chapter – The Beginning

“To know what will be our future, you need to know what was in our past,”
- Senator Edward Moore Kennedy

The Beginning - May 29, 1967 is when it all started. It was on this Memorial Day of 1967, that consulting engineer Robert Hamilton first wrote ASHRAE Executive Secretary Robert C. Cross to request the information on how to establish a chapter in the Islands. On June 1, 1967, ASHRAE Membership Secretary Stephen C. Singleton responded and informed Robert Hamilton that a minimum of twenty five (25) dues-paid members was required to petition in establishing a chapter.

At that point in time, the registered Society members were short of the requirement to form a chapter.

It took Mr. Hamilton about 18 months to convince many individuals within the HVAC&R community to petition for the formation of a local ASHRAE chapter. It was not until October 8, 1968, that Mr. Hamilton contacted Mr. Singleton again about the forming of our chapter. The Society reminded Mr. Hamilton to recruit additional members (over & above 25) in order to insure an active group.

On December 4, 1968, Director & Regional Chairman (Region X DRC) Val J. Burke congratulated Mr. Hamilton for his initiative to petition for a chapter in the Islands. On March 28, 1969, Mr. Burke forwarded Mr. Hamilton a copy of “Manual for Chapter Operations” also known to some of us as MCO.

Further correspondence (dated 6/9/69) confirmed the official submittal of twenty seven (27) members with addresses of record to include the entire State of Hawaii and not be limited to the Island of Oahu or the City/County of Honolulu. Together with the said transmittal, Mr. Hamilton confidently expressed to DRC Val Burke that “he can apply the adiabatic cooling process to our request for establishment of the subject chapter before presenting it to the Board of Directors. This is certainly the least we can expect from our Regional Chairman and Vice President with full recognition to his intimate knowledge of vice as practiced in Hawaii”.



The Steering Committee - After the “two long” Memorial Weekends from the day Robert Hamilton initiated his communication with the Society, the steering committee was finally formed on June 9, 1969 and was chaired by Robert Hamilton. The first meeting was held at 12 Noon at the Pagoda Restaurant with the following members in attendance: R.E. Hamilton, K.A. Bowman, T.P. Fitzpatrick, R.R. Hughes, J.F. Lindsay, G. Motonaga, N.L. Soderholm, L. Sorensen, G. Salfen, J.Y. Tanaka & K.P. Whitney. The meeting minutes concluded with The first meeting was held at 12 Noon at the Pagoda Restaurant with the following members in attendance the appointment of Karl Bowman & John (Jack) Lindsay as nominating committee members to nominate and recommend the candidates to serve as officers & members of the Board of Governors for the Hawaii Chapter, which should be chartered on September 10, 1969.

“WORK must go on; HOPE rises again; &
DREAM lives on”

expressed clearly over & over again by our
belated Senator Teddy Kennedy.

Our chapter’s founding fathers’ work had just begun. They were full of hope that their common dream of establishing a Hawaii Chapter of ASHRAE was finally a reality.

The 2nd meeting with the Steering Committee took place on July 7, 1969 to review the Chapter Model Bylaws and edit the appropriate sections. It was on this day that the Committee confirmed Terry Fitzpatrick to serve as Treasurer and Kenyon Whitney to

serve as Secretary. At this particular meeting, the attendees recommended that the first meeting of the Hawaii Chapter be held on September 10, 1969 to coincide with the founding date of ASHVE (American Society of Heating Ventilating Engineers) 75 years ago. Towards that end, Mr. Hamilton summarized them in his 7/9/69 letter to the newly-elected Vice President (formerly Region X DRC) Val Burke and to the newly-appointed Executive Secretary Andrew Boggs.

Some controversial discussions within the Society hierarchy started in regards to the issue of 9/10/69 chartering date of Hawaii Chapter. While the Society Executive Committee (ExCom) was going through the difficulty in sorting-out what should be done, the chapter founding fathers held a meeting on July 14, 1969 to plan for the chartering of the Chapter, and held another meeting on July 25, 1969 to elect the first slate of Chapter Officers and members of the Board of Governors.

The Society ExCom decided to prepare a charter and secure a gavel for the Hawaii Chapter allowing the charter to be dated September 10, 1969. The then Society Board suggested to our chapter founding fathers the chartering meeting be held on January 24, 1970 (Saturday) immediately following the 1970 Winter Meeting in San Francisco instead.



Historic Day for ASHRAE - The reasons for the postponed date of the chartering meeting were stated in the 7/28/09 letter from the Society Executive Secretary: "September 10 is an historic date for ASHRAE as an international Society. It will be a subject of discussion before all of our chapters, and many of our affiliated engineering organizations throughout the world on that date. Hawaii Chapter will be our first chapter off the mainland, and certainly this is also an historic step for the Society. Since we have already planned for extensive programs related to the Society's birthday, we believe it would dilute the importance of the Hawaii Chapter chartering to have it coincide with the Society's principal function."

Towards that end, the postponement of the Hawaii Chapter's official charter ceremony should allow many of the top Society members to participate at this memorable event of the Hawaii Chapter history.

On the minutes of July 31, 1969 meeting held at the Tahitian Lanai, Secretary Kenyon Whitney reported on behalf of the Steering Committee for Hawaii Chapter that the said 7/28/09 letter from the Society was distributed for the members to consider and consensus was reached to accept the Society's recommendation. Shortly after, Ken Whitney resigned from his position as Secretary, as he was relocated.

First Official Meeting of ASHRAE Hawaii Chapter - "Hope rises again and the dream lives on." President-elect Robert Hamilton

directed 1st Vice President Richard Hughes to organize the first official meeting of the newly established Hawaii Chapter, which was held on September 10, 1969 (Wednesday) at Princess Kaiulani Hotel (Robert Louis Stevenson Room). The meal cost was \$7 including full-course dinner & music by Hawaiian Trio.

At the time of our charter night on January 24, 1970, seventy-two (72) individuals were bona fide ASHRAE members and a dozen of applications were being considered. That evening, fifty-seven (57) individuals were recognized as the chapter's charter members. The charter presentation night was held at the Kamehameha Ballroom in the new Surfrider Hotel.

There were approximately 120 members, guests and spouses including 30 from mainland United States & Canada. Society dignitaries included ASHRAE President-elect Frank Bridgers, Vice President Val Burke and Region X DRC Dixon Ervin as well as Presidential Members (Peanuts Vinther & Walter Grant). The singing & swinging Tahitian dances performed by the Kailua Madrigal Singers received a standing ovation for their performances.



Mr. Bridgers officially presented the charter dated 9/10/69 to Chapter President-elect Robert Hamilton, and declared Hawaii Chapter as the 109th Chapter of the Society and the first chapter to be established off the North American continent. Mr. Ervin installed the 1969-70 Hawaii Chapter Officers & Board of Governors. The evening concluded with the Chapter President Robert Hamilton receiving from Mr. Burke the official gavel for the Chapter.

ASHRAE HAWAII 1969-1970

Chapter Officers

President: Robert E. Hamilton

1st Vice President: Richard R. Hughes

2nd Vice President: Karl A. Bowman

Secretary: George Y. Motonaga

Treasurer: Joseph Y. Tanaka

Board of Governors (BOGs)

- John F. Lindsay

- Gil Salfen

- Nels L. Soderholm

- Lars Sorensen



CHAPTER TECHNOLOGY TRANSFER

By **Dicson Aggabao**

Hi everyone, my name is Dicson Aggabao. I am a sales engineer for Carrier Hawaii. I've been in the HVAC Industry for about 10 years. I am a graduate of the University of Hawaii at Manoa with a bachelors in Mechanical Engineering.

Last year I served as ASHRAE Hawaii's Vice President overlooking the chapter website and newsletter.

This year I am the CTTC chair. CTTC stands for Chapter Technology Transfer Committee. In a nutshell the CTTC is responsible for providing efficient and effective transfer of current and relevant information through the HVAC&R Industry.

Dicson

CTT Objectives

- Develop and maintain high quality and readily available tools to enable chapters to offer informative and attractive industry related information and programs to all target segments
- Encourage an active, informed membership by keeping local, provincial and state governments updated on technical issues
- Coordinate the chapter refrigeration activities
- Promote governmental activities
- Identify and develop resources for programs and technical sessions for chapter use
- Develop, maintain, and distribute a regional speakers' list
- Coordinate input to Society from chapters on standards, publications and position statements
- Promote and administer the "Energy Awards" programs
- Promote continuing education activities at the chapter level



NEWSLETTER

By Michael Chang

Aloha ASHRAE Hawaii Ohana,

This year I am honored to be your Vice President and more importantly the Newsletter Editor.

I have recently left the Honolulu Branch of Johnson Controls in capable hands and now have the challenge of working on the Hawaii Energy Team (www.HawaiiEnergy.com) to achieve our portion of the State of Hawaii’s ambitious 2030 energy usage reduction goals outlined in Hawaii’s Clean Energy Initiative (www.hawaiicleanenergyinitiative.org).

Past President Joseph Ting has used his unique combination of technical, philosophical, management and historical lectures to wear me down and convince me of the value of giving back to the industry that is both valuable to the livelihoods of each of us personally as well having a great importance to all the Kama’aina of the State of Hawaii.

Over the past two years I have learned the value of participating in the ASHRAE Hawaii Chapter for both my professional career and personal growth. It is the sharing of experience and passing on of knowledge between the Chapter Members that has the greatest potential to move our industry forward as we face the intertwined technical challenges of our State’s economy and energy needs at the same time we are taking on the demographic challenge of a transition from the Baby Boomer generation to the X and Y generations that have to take on the care of the torch.

I look forward to working with each of you to contribute your experiences and expertise with our community through this newsletter and our chapter activities.

Mahalo,
Michael

Call for Articles

Knowledge is Power
Sir Francis Bacon

We are looking for contributing writers for the following subjects:

- What you Need to Know about the State of Hawaii Mechanical and Plumbing Building Codes
- Ideas on Designing the Highest Efficiency Central Cooling Plant in Hawaii
- Best practices in Domestic Water Pumping
- Critical Items for Mechanical Maintenance and Service Contracts
- Challenges of Chilled Water Loops
- Lessons learned on the design and operation of Cooling Towers
- A Wish List to our Mechanical Engineers from your Mechanical Contractors
- Etc...



SECRETARY

By Barry Jim On

Aloha fellow ASHRAE members,

I am very honored and delighted to serve as your Secretary and member of your executive Board for 2009-2010. I am looking forward to a very productive and inspiring year. The accomplishments of last year's board and President (Mr. Joseph Ting) will definitely be a tough act to follow as we have been so fortunate to have had very dedicated volunteers leading our organization and looking out for the best interest of our HVAC industry over the years. However, we are up to the challenge, and we hope to bring you another great year of activities, programs, and opportunities for networking this coming year.

I've been an ASHRAE member now for over 15 years, and have had the pleasure of expanding my technical knowledge through the many programs and literature that ASHRAE has to offer. But more importantly, I truly treasure the friendships that I have made over these years through my involvement in ASHRAE. This has greatly facilitated my working relationships with other members in the industry. I encourage all of you to get involved for this very reason. The strength of our local ASHRAE chapter rests solely on the shoulders of the many volunteers who help to make this a great organization. The more of you that get involved, the stronger the organization will become which will help all of us to take full advantage of the benefits that ASHRAE has to offer both professionally and socially.

Again, I look forward to serving you, and I especially look forward to making new friends and renewing old friendships over the next year. I wish all of you a great year ahead.

Mahalo Nui Loa,
Barry Jim On, P.E.
Vice President
Insynergy Engineering
ASHRAE Hawaii Secretary – 2009/2010



STUDENT ACTIVITIES

by Paul Fukunaga, P.E.

Paul Fukunaga is the Chairman of the Student Activities Committee (SAC) for the 2009-2010 year. He is an ASHRAE member, partner at Thermal Engineering Corporation and an alumnus of the University of Hawaii at Manoa.

The 2009-2010 school year has just started and President Albert Hahn and Paul Fukunaga presented a short talk about ASHRAE to Professor Ting's Air Conditioning class at the University of Hawaii at Manoa. The students were encouraged to join the ASHRAE to obtain access to the large amount of HVACR technical information and meet the local members in the HVACR industry that could lead to a future career in HVACR. Four former students who completed Professor Ting's class also presented their views of the value and importance of this AC course and how they are now working in the HVACR industry.

We will be planning two or three field trips with the student branches for the coming year and will announce the field trips in the upcoming newsletters.

There will also be a job fair at the University of Hawaii, presentation at the Moanalua high school career day and an agency judge at the annual Hawaii State Science Fair.

If you are interested in participating in these events, please contact me.

Paul Fukunaga

Call for Handbook Donations

Since the ASHRAE 2008 Fundamentals has been published and is now in use, do you still have the older ASHRAE Handbooks but no longer use them?

If so, please consider donating your old Handbooks (2001 to date, please) to the UHM ASHRAE student chapter, please contact me at 356-2454 or via email (fukunaga@thermaleng.com) to make arrangements for pickup.

With the cost of textbooks continuously increasing, the students will be able to use the valuable information from the ASHRAE Handbooks that is still applicable without additional expense.



ATTENDANCE AND RECEPTION

By Roland Suzuki

I am Roland Suzuki the new Attendance and Reception Chair for this exciting new term. My duties will include contacting members about upcoming monthly meetings and confirming their attendance at reception.

Presently I am a Project Manager at Heide & Cook, Ltd. managing projects for Air Conditioning, Fire Sprinkler and Plumbing installations. I have been an ASHRAE member for the past 5 years and I am also a member of NFPA and a LEED Accredited Professional.

Thank you,
Roland



CHAPTER PROGRAM

By Bill Lee P.E.

Hi ASHRAE Hawaii members,

I am honored to serve on the Board of Governors and as Program chair. I was introduced to ASHRAE when I was a University of Hawaii student when I was selected to receive the Jack Lindsey Award for the outstanding student in the Air Conditioning class. (For some reason that award was discontinued) I clearly remember attending my 1st local ASHRAE meeting to receive that award –the late Giovanni Chung and Fred Kohloss would jump up every few minutes with a motion to lower the dues.

My first impression was that this was an interesting group of characters who had a lot of life, enjoyed each other, and had interesting perspectives on things. My 1st impressions have proved true.

I hope that we can learn a lot from our meetings together not only from our outstanding guest speakers but also from our shared conversations and friendships.

I am a Senior Associate with Mechanical Engineers of Hawaii Corporation, a P.E., F.P.E, LEED AP, a UH grad (go Bows – oops Go Warriors).

Please give me some suggestions on the programs and speakers that you may know of.

Look forward to meeting you if I haven't already.

Bill



REFRIGERATION

By Scott La Beau

I am Scott LaBeau and have the pleasure of hosting the local ASHRAE refrigeration chair. I will provide updates on refrigerant issues including the phase-out of R22 for new equipment in 2010. I would also like to facilitate a field trip to a low temperature refrigeration plant for members and student members.

I am employed as a sales engineer for DMG Corporation, which was started in 1967, the same year as the inception of ASHRAE Hawaii.

Mahalo,

Scott La Beau

Sales Engineer



TECHNOLOGY (ENERGY) AWARDS

By Kevin Saito P.E. LEED AP

Greeting Fellow ASHRAE Members,

It's the start of another exciting year and I'm sure we're all facing the challenges with our usual energetic and professional ways.

I'm pleased to serve as your new Board of Governor and have been asked to focus on our Chapter's submittal for energy efficient projects.

This is a perfect assignment for me as my passion for the past decade has been energy efficiency and sustainability.

In these trying economic times, energy efficiency isn't a luxury but a necessity that helps the bottom line and those who pursuit it are the champions who will show the way for the next great project.

Looking forward to this upcoming ASHRAE year and hope to see you all at the meetings and events.

Mahalo,
Kevin

Call for Energy Projects

I invite all members who are working on projects that might be energy efficient to contact me and I'll work with you to tell your good story!

You don't have to be the project lead or the engineer of record. If you're a vendor or contractor, I'll work with your design team or owner to bring them their professional due and ensure credit is spread all around.



MEMBERSHIP PROMOTION

By Mofazzal Mir

I am Mofazzal Mir and I am very much delighted to have the opportunity to serve as membership promotion committee chairman.

My responsibilities includes recruiting of new members, retaining the existing members, updating the roster, providing information and organizing events that might help increase the membership & participation in our chapter including assisting the Young Engineer of ASHRAE to integrate them smoothly into the chapter activities.

Currently I am working as a Mechanical Engineer at InSynergy Engineering Inc. I am ASHRAE member since September, 2006. I am looking forward to work with you to make this year another successful chapter year.

Best Regards,
Mofazzal



YEA (YOUNG ENGINEERS OF ASHRAE)

By Alayna Shima

Greetings to all ASHRAE Members,

I took over the position of chairman of the YEA committee midway through SY 2008-2009 and am pleased to continue in this role for SY 2009-2010.

This year I would like to implement more activities that will hopefully encourage the younger members of the HVAC community to become active participants within the ASHRAE Hawaii Chapter. These include mixers, refrigeration / air conditioning tours and other social activities designed to provide common ground for meeting peers.

In addition to social activities, I would like hold events about topics such as the art of networking, keys to giving an excellent oral presentation and tips to effective communication.

The greatest resource we have is each other and the earlier we can recognize and take advantage of this, the easier we can make our lives. Please highly encourage your younger colleagues and/or employees to become members and active participants within the ASHRAE Hawaii Chapter.

If you have any questions, comments or suggestions regarding YEA, please do not hesitate to contact me. I look forward to seeing all of you at our upcoming meeting.

Thank you,
Alayna



GOVERNMENT AFFAIRS

By Mark Yamamoto

Aloha ASHRAE Hawaii members,

I've been an ASHRAE member since the late '80s but this is the first time that I've gotten involved in our chapter's committees.

The position I've been enlisted for is the chapter representative of Government Affairs. My understanding is that this is a new position that our local chapter has created because ASHRAE standards, especially those that are related to sustainable and "green" buildings are being adopted into building codes.

We need to identify those in government with whom we can have an engaging dialog to discuss and perhaps educate on those value-added best practices that ASHRAE has diligently developed for air-conditioning and refrigeration.

I look forward to this new challenge and welcome any and all feedback and assistance.

Mahalolo!

Mark Yamamoto