

**ASHRAE**  
Hawaii Chapter

# HE EA MAKAMAE

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

*SY 2011-12, Issue #1 HONOLULU, OAHU, HAWAII September 2011*

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## *PRESIDENT'S MESSAGE – Paul Scott*

Aloha Fellow ASHRAE Hawaii Chapter Members:

It is with great respect that I enter into my year as the President of the Hawaii Chapter. I have been to three Chapter Regional Conferences since coming back to serve the Hawaii Chapter. Having known a number of the founding members of our Chapter, serving as Chapter President is indeed an honor for me.



I would like to thank Michael Chang, the Board of Governors and the Committee Chairs from last year for their dedicated service to our Chapter members. Over the past several years we have received many accolades from our mainland colleagues and they know the Hawaii Chapter to be very active and very dedicated to our members.

We faced many difficult issues over the past several years. The struggling economy, new regulations for energy and indoor air quality, and the Japan Tsunami, are just a few of these challenges. Your new Chapter Board will try to deliver meaningful technical updates, interesting and informative membership meetings, technical support for our legislators, stimulation for our young and future engineers, recognition for our designers, contractor-builders, equipment distributors, and service supporters, as well as a lot of fun along the way! We have had several meetings this summer to plan for the coming year and I know that we will accomplish these goals.

I urge all of our members to support the activities of our Chapter by attending meetings, giving as generously as they can to research, and our Chapter activities. This support will encourage all of our members to work together to make Hawaii a better place to live and raise our families. I look forward to greeting you to an upcoming membership meeting soon!!

Mahalo. Scotty.

## **ASHRAE HAWAII 2011-2012 BOARD OF GOVERNORS AND CHAPTER CHAIRPERSONS**

### **Chapter Officers – Society Year 2011 to 2012**

President: Paul “Scotty” Scott  
President-Elect: Kevin Saito, P.E. LEED AP  
Vice President: Barry Jim On, P.E.  
Secretary: Blake Araki, P.E.  
Treasurer: Donna Kishi,

### **Chapter Board of Governors**

Michael Chang, (Immediate Past President)  
Scott La Beau  
Bill Lee, P.E.  
Mofazzal Mir, P.E.  
Alayna Shima, P.E.

### **Chapter Chairperson**

Attendance and Reception: Ross Okuda, P.E.  
Technology Transfer: Kevin Saito, P.E. LEED AP  
Programs: Scott Le Beau  
Government Affairs: Michael Chang, P.E.  
Refrigeration: Dean Oakley  
Technology: Herman Siu  
Energy Awards: Mofazzal Mir, P.E.  
Historian: Albert Hahn, P.E.  
Memberships Promotions: Joseph Ting, P.E.  
Newsletter Editor: Barry Jim On, P.E.  
Research Promotions : Dean Borges, P.E.  
Technical Seminar: Alayna Shima, P.E.  
Technology Chair: Dicson Aggabao  
Student Activities : Bill Lee, P.E.  
Young Engineers of ASHRAE: Isaac Opedal  
Webmaster: Joseph Ting, P.E.

# ASHRAE Hawaii Chapter - September 2011

SUN	MON	TUE	WED	THU	FRI	SAT
				1	2	3
3	4	6	7	8	9	10
	Labor Day Holiday			<b>Chapter Meeting : (Ingredients for a Successful Commissoned Project)</b>		
11	12	13	14	15	16	17
18	19	20	21	22	23	24
				<b>Chapter BOG Meeting</b>		
25	26	27	28	29	30	

## NEXT CHAPTER MEETING

Date: 08 September 2011 (Thursday)

Where: The Willows Restaurant, 901 Hausten Street, (808) 952-9200  
[www.willowshawaii.com](http://www.willowshawaii.com) )

Registration: Starts at 5:30 pm. (Contact [Iscottesi@aol.com](mailto:Iscottesi@aol.com) to RSVP)

Technical Session: 6:00 pm (Dehumidify with the Experts)

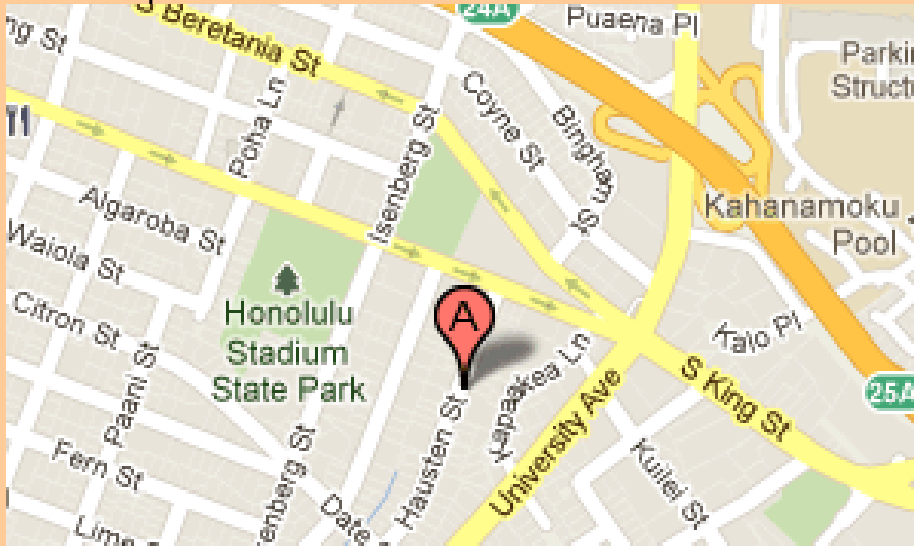
Dinner: Starts at 7:00 pm

Main Program: 7:30 pm, "Panel Discussion - Ingredients for a Successful Commissioned Project"

Adjournment: 9:00 pm

Cost: \$45 per ASHRAE member; \$50 per guest; \$55 at the door registration. Payment can be made via PayPal at <http://hawaii.ashraechapters.org> Otherwise, make check payable to **ASHRAE Hawaii Chapter.**

Map to the Willows Restaurant:



Technical Session "Do's and Don'ts": Dehumidify with the Experts:



Evert Osterman  
"Desert Aire, *because we care*"  
Western Regional Manager  
Ph: 760-603-  
8170  
**"Dehumidify with the  
Experts"**

Evert Osterman has been involved in the dehumidification industry for 18 years. He has worked directly for or represented the major dehumidification manufacturers which include Dumont Industries, Dectron and Pool Pak before his current position. Evert is currently the Western Regional Sales Manager for Desert Aire. With his vast knowledge and experience in understanding dehumidification throughout the United States he understands what it takes to control humidity in both the dry and wet regions. He has been published in engineering magazines and has made several speaking presentations at various American Society of Heating, Refrigeration and Air-Conditioning Engineers (ASHRAE) local chapter meetings.

**September 8<sup>th</sup> Program:**

**“Ingredients for a Successful Commissioned Project”:**

Requirements for building commissioning are becoming more prevalent in projects due to LEED requirements, Code requirements, and owners who just want to ensure systems are working properly before they are turned over. Commissioning is still a mystery to many who have not been involved in the process. Even those who have been through the process do not know if the commissioning work provided was successful or not.

This month’s program will focus on commissioning and the ingredients for a successfully commissioned project. There are many parties involved in the commissioning process and each has its own view on what constitutes a successfully commissioned job. A discussion panel including various stakeholders involved with the commissioning process will provide insight and experiences on past projects. Stakeholders represented include:

**Consulting Mechanical Engineer:**

**Richard Beall (Beall and Associates, Inc.)**

**Owner’s Representative:**

**Mr. Keith Yamanaka (US Army Garrison Hawaii)**

**TAB Contractor:**

**Carey Tomas (Air Balance Hawaii, Inc.)**

**Commissioning Agent Cx:**

**Mr. Dean Borges, Cx (Insynergy Engineering Inc.)**

**Mechanical Contractor:**

**Mr. David Parke (Dorvin Leis)**

**September 8<sup>th</sup> Program:**

**"Ingredients for a Successful Commissioned Project"**

**Speaker Bios:**

***Mechanical Consultant: Mr. Richard Beall, P.E.  
Beall and Associates, Inc.***



***Mr. Rick Beall***

Rick Beall, P.E., LEED AP, BEMP is a Principal with Beall & Associates, Inc., Consulting Mechanical Engineers since 1994 and has over 33 years of experience in building systems engineering. Rick graduated with a Bachelor of Science in Mechanical Engineering from the University of Washington and a Masters in Business Administration from University of California at Berkeley. In addition to being the first LEED AP in Hawaii, Rick is also the first engineer in Hawaii to become an ASHRAE Certified Building Energy Modeling Professional. His projects have included First Hawaiian Center, Four Seasons Hualalai, Kukui'ula Resort, The Grand Waikikian, Ritz Carlton Club and Residences at Kapalua, and Waikoloa Kings Land. The Kingsland Clubhouse is LEED Silver Certified and was recently awarded First Place for Region X ASHRAE Technology Awards

September 8<sup>th</sup> Program:

"Ingredients for a Successful Commissioned Project":

Speaker Bios:

*Owner's Representative: Mr. Keith Yamanaka, P.E.  
U.S. Army Garrison*



*Keith Yamanaka In Action*

From 1999 to the present, Mr. Keith Yamanaka has been the energy manager for the US Army Garrison Hawaii. He oversees buying, selling, conserving, creating and securing energy for 1,600 buildings (25 million square feet) for all 23 Army installations in the state of Hawaii. A certified energy manager since 2000, his prior work experience includes commissioning of electrical and mechanical systems on nuclear submarines, operation and maintenance management of electrical and mechanical systems for Tripler Hospital and management of the utilities privatization program for Army water, wastewater and electrical systems.



**Speaker Bios:**

**September 8<sup>th</sup> Program:**

**“Ingredients for a Successful Commissioned Project”:**

***TAB Contractor: Mr. Carey Tomasa***

***Air Balance Hawaii Inc.***



Mr. Carey Tomasa

Carey Tomasa will speak as the TAB representative’s roll during the construction phase of the project. He has 25 years of experience in Testing, Adjusting and Balancing of HVAC systems. He has been the owner of Air Balance Hawaii, one of the State’s largest TAB companies, since 1991 and is certified by the National Environmental Balancing Bureau (“NEBB”).

**September 8<sup>th</sup> Program:**

**"Ingredients for a Successful Commissioned Project":**

**Speaker Bios:**

**Commissioning Agent: Mr. Dean Borges, C x, P.E.  
Insynergy Engineering Inc.**



**Dean S Borges, P.E., LEED AP, Cx A.**



- Graduate Mech Engineering in Dec. 1976 with a BSME focused on Design from Nevada
- Started with a local Engineering design firm in Reno working on the MGM Grand Hotel
- Moved to State of Nevada job in 1978, Dept.'s of Energy, Water Resources, Air Quality, B&G, Public Works & UNR (3 yr period as

Mech Contractor – still have a C-21 license)

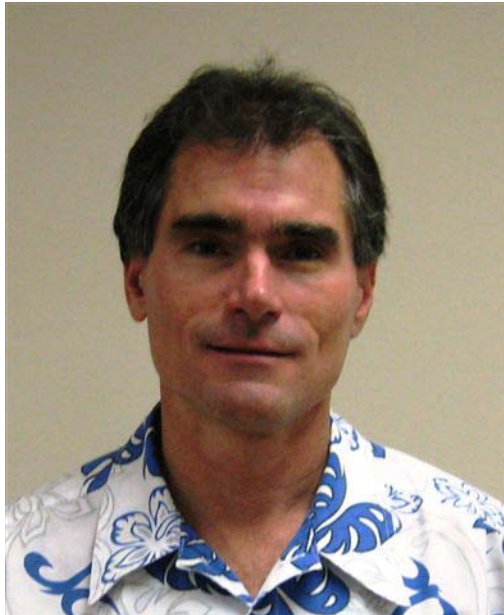
- Presently, working as Commissioning Agent on Coast Guard, Public Libraries and Navy facilities.
- My main focus revolved around spot cooling systems for server rooms with concentrated loads.
- New construction plan reviews
- Existing building upgrades
- Specifically –
  - Renewable Energy Center at Redfield Campus
  - Joe Crowley Student Union – Commissioning Authority
  - Knowledge Center
  - Math and Science Building
  - Micro-Biology Medical Lab with Vivarium for research animals
  - USCG – NESU/ESU Building
  - US Navy – Makalapa Building
  - DR Fortress Facility

September 8<sup>th</sup> Program:

"Ingredients for a Successful Commissioned Project":

Speaker Bios:

*Mechanical Contractor: Mr. David Parke  
Dorvin D. Leis*



David Parke is the Division Manager for the Sheet Metal and HVAC Departments for Dorvin D Leis. David has 30 years of industry experience and will be the contractor's representative for the Commissioning and Air Balancing round table. David has overseen some of Hawaii's most prestigious projects including the new Disney Vacation Club and Resort, Trump Tower Waikiki, Westin's Princeville Ocean Resort on Kauai and the Lodge at Koele on Lanai.

David graduated from the University of Central Florida and the University of Florida. David is an ASHRAE Member and Florida State Certified Mechanical Contractor

# ASHRAE HAWAII HAPPENINGS (June to August 2011:

## **2011 ASHRAE Volleyball Tournament:**

Despite the business rush of the summer, **Hawaii Chapter of ASHRAE** hosted the 1<sup>st</sup> Annual Lester Nakata Memorial Volleyball Tournament July 30, 2011 and enjoyed a summer social event with family members included. The weather was perfect, the competition fierce, the raffle prizes great, and fun was had by all in attendance. Hawaii Chapter President "Scotty" Scott congratulated all for their donations of time, efforts and presented the Trophy and Plaques to the champions and runners up team members.

### **Research Promotion Committee Members:**

Dean Borges, RP Chair, Joseph Ting, Trophies and Raffle

### **Teams/Results:**

1. **InSynergy Engineering, Inc.**, with: Joseph Ting, Eli Comeau, Brandon Low, Dean Borges, Matt Tio.
2. **Norman S. Wright Company**, with: Marci Follero, Marino Garces, Jeff Follero, Jocelyn Fiesta, Faafitauli Seiuli, Kelvin Gogue.
3. **Air Treatment Corporation**, with: Ryan Lee, John Juckiewlcz, Glen Kam, Kevin Luoma, Ken Mocko.
4. **Engineered Systems, Inc.**, with: "Scotty" Scott, Linda Scott, Isaac Opedal, Kyle Scott, Edward Vejar.



First Place

Second Place

Third Place

Fourth Place

Thanks again to all those involved and if you'd like more details give me a call.

Best regards,

**Dean S. Borges**, Research Promotion Chair, 2011-2012  
Hawaii Chapter of ASHRAE,  
808-529-1275



## **2011 ASHRAE Region X Technology Awards:**



**Congratulations to Insynergy Engineering Inc. for winning the Region X 1st Place, Commercial Bldg (Existing) category of the Technology Awards for its Solar Thermal project. The project utilizes a solar hot water heating system to provide supplemental cooling in an existing office building. The project was a local award winner and was described in detail in the April 2011 newsletter. The project will now be submitted for National Award consideration.**

**We wish Insynergy Engineering Inc luck on their national award application!!!**



**Congratulations to Beall and Associates Inc. for also winning a Regions X 1<sup>st</sup> Place, (Public Assembly Category) for their project at Waikoloa Kings Land HGVC club house. The project was LEED silver certified and implemented many energy efficient features.**

**We also wish Beall and Associates luck on their national award application!!!**

## Chapter Technology Transfer

Welcome Fellow Hawaii Chapter Members,

Allow me to welcome you all back to a new Society Year in ASHRAE. As your recently elected President-Elect, I have the honor of heading up the Hawaii Chapter Technology Transfer Committee which includes working with a handful of great volunteers who add to an exciting and value-packed Chapter program.



If you're like me, you may have wondered "what is CTTC all about anyway?" Allow me to share my brief overview of CTTC and why each Chapter throughout ASHRAE focuses on CTTC.

As you may know, ASHRAE is the premier organization to provide non-biased technical facts on heating, air conditioning, and refrigeration issues. Research that is conducted by ASHRAE influences our industry, our communities, our society, and the global community. As a Society, we provide the facts used by decision makers to enact more energy efficient standards or adopt practices to enhance safety. These are only two examples of how ASHRAE impacts the world but ASHRAE does not exist without the members and their valuable contributions to support the organization and its mission.

That's why ASHRAE is known as a "grassroots" organization. ASHRAE can provide research because of your support whether it's your time spent volunteering, your financial donations, sponsorship of ASHRAE events, or donated mementos. At a future Chapter meeting, I will share with you what a world without ASHRAE research may look like. It's shocking and stresses the importance of your support!

CTTC is a standing committee focused on "technology" and to advocate the use of technology to better serve our community. There are 5 parts to

CTTC: Program, Technology, Energy Awards, Refrigeration, and Governmental Affairs.

If any of you have served as a Chapter **Program** Chair, you'll know this person provides a quality program that provides technical information to you our valued Chapter members. Month to month, you have the opportunity to learn or deepen your understand of technology or issues related to our industry that will shape the future of our world. Thought our monthly meeting was just a place to renew or strike up new friendships, have an adult beverage, or just hang out with your fellow employees? You're right but it can be so much more meaningful than that! It's an opportunity to learn a new facet of the industry, not one you normally work on at your job. It's an opportunity to expose your employees to basic/advanced training on technical issues. It's an opportunity to share your knowledge with your local industry.

The Program Chair is encouraged to set up a year-long program that specifically addresses your interests. If you want a topic presented, please let the Program Chair know as soon as possible so he can get it coordinated.

A Chapter Program Chair is not on his/her own; Society has a roster of **Distinguished Lectures** who are recognized as subject matter experts on a variety of topics and issues. Because these speakers are in such high demand by Chapters, Chapter leadership is highly encouraged to request them early in the Society year. To support the transfer of technology expertise through the Distinguished Lecturer program, Society provides financial assistance to support a DL visit. There is also a Regional list of speakers who experts in their own right and live within the Region (our region is Region X – “ten” - and covers the Chapters in the southwestern states.) Finally, we have experts within our own great state who we call upon to share their experience and knowledge. If you think our Chapter is not providing relevant topics during our monthly Chapter meetings, please contact this year's **Program Chair Scott LaBeau** and suggest a few of your own.

Our Chapter **Technology** Chair's mission is to encourage feedback from the Chapter members' on technical issues. Ever wonder who puts together an ASHRAE technical paper or ASHRAE Standard? Well...you do! Either by being part of an ASHRAE committee or by providing feedback solicited by our Chapter Technology Chair. If you ever wondered who came up with such a "crazy" analysis, we did by not giving our constructive input. (Do it appropriately and route it through our Chapter **Technology Chair Herman Siu**. Keep it professional, people!)

So, if ASHRAE is REALLY committed to energy efficiency and sustainability, how do we show it to the rest of our community: through our **Energy Awards** program, of course! If ASHRAE's going to talk the talk, we better walk the walk! And we do! The Chapter Energy Awards Chair is the person who is tasked with finding those projects in our Chapter area that are actually built (not just in design or in proposal stage) and saving energy. There are multiple levels of recognition (Chapter, Region, Society, etc) but the path starts right here in the Hawaii Chapter.

A nomination at the Chapter level is a true honor as your peers have already recognized your contribution to making our community more energy efficient. Earning an Energy Award at any level is icing on the cake and demonstrates the member's expertise of ASHRAE principles and practices to provide energy efficient, comfortable, and sustainable systems and facilities in a real-world application. **Mofazzal Mir** is this year's Chapter **Energy Awards Chair**. Please help him by identifying a completed project that might be worthy.

While many of us in the Hawaii Chapter focus on the HVAC side of ASHRAE, there is still the "R". Ever wonder what would happen if those beer cases at the corner convenience store were to break down? Where would you buy that pint of cherry vanilla ice cream without freezer cases at the local supermarket? How many cow, pig, or chicken farms do you see as you drive around your local community?

Without "R", our lives would be vastly different. **Dean Oakley** is this year's Chapter **Refrigeration Chair** and will keep us focused on the



importance of refrigeration. Look for his refrigeration event in future newsletters. (During this year's CRC in Scottsdale, AZ, I noted many Chapters in our Region held brewery tours...hmmm...)

Lastly, but very importantly, there's the Chapter **Governmental Affairs** Chair. This year, we're pleased to have outgoing Chapter President **Michael Chang** step into this key position. As you may deduce, all the ASHRAE research and data is great but using this valuable information to encourage energy efficiency improvement takes the value to another level. While we at Chapter level do not speak for ASHRAE as an organization or any technical positions taken at Society level, we can present information published by ASHRAE and encourage use of ASHRAE's expertise to form policy by our local elected officials. *We do not make policy; we present unbiased facts to policy makers so they can make an informed decision.*

Like your entire Chapter officers and Board of Governors, the people who volunteer their time to chair these Chapter sub-committees are VOLUNTEERS! They receive no pay whatsoever, they do ASHRAE work when they can fit it around their normal work tasks, and they sacrifice their personal time with their families and friends just to put on a great program for you. If nothing else, please withhold your negative criticism of their service. I extend a personal invitation to all of you to thank them for stepping up in these trying economic times when we're all doing more with less. Ideally, you will consider volunteering to help the Chapter/Region/Society continue the important mission of ASHRAE.

MAHALO to the employers of all our great Chapter volunteers: your support of them shows your industry leadership and endorsement of ASHRAE's mission. Mahalo also for your support of our Chapter activities such as sending your employees to our monthly meetings or Technical Seminar. If we can increase the value of these events to you or your employees, please feel free to contact me. We appreciate your continued support and look forward to your future support. From all of us in the Chapter, THANK YOU VERY MUCH!

I look forward to meeting and talking with all of you at future Chapter events. Please feel free to contact me at [Kevin.Saito@Trane.com](mailto:Kevin.Saito@Trane.com) if you have any issues pertaining to the Chapter CTTC program. For your convenience, I've included the email addresses of the CTTC Sub-Committee Chairs.

**Chapter Programs Chair: Scott LaBeau ([scott.labeau@dmghvac.com](mailto:scott.labeau@dmghvac.com))**  
**Technology Chair: Herman Siu ([Herman.Siu@Trane.com](mailto:Herman.Siu@Trane.com))**  
**Energy Awards Chair: Mofazzal Mir ([mmir@insynergyeng.com](mailto:mmir@insynergyeng.com))**  
**Refrigeration Chair : Dean Oakley ([Dean.Oakley@Trane.com](mailto:Dean.Oakley@Trane.com))**  
**Governmental Affairs Chair: Michael Chang**  
**([Michael.J.Chang@saic.com](mailto:Michael.J.Chang@saic.com))**

Mahalo,

*Kevin*

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# Research Promotion Newsletter– ASHRAE Hawaii

To learn more about ASHRAE Research Promotion please click on the link below:

<http://www.ashrae.org/members/page/45>

To make donation to the Hawaii Chapter Research Promotion Campaign click here: [https://www.ashrae.org/aboutus/resource\\_promotion.asp](https://www.ashrae.org/aboutus/resource_promotion.asp)



## A special **Thank You** goes out to the following '10-11 Contributors:

### Organizations:

**\$1,000 to \$750:**

Beall & Associates Inc.

### Individuals

**\$750-\$500:**

Scotty (Paul L) Scott

**\$499-\$150:**

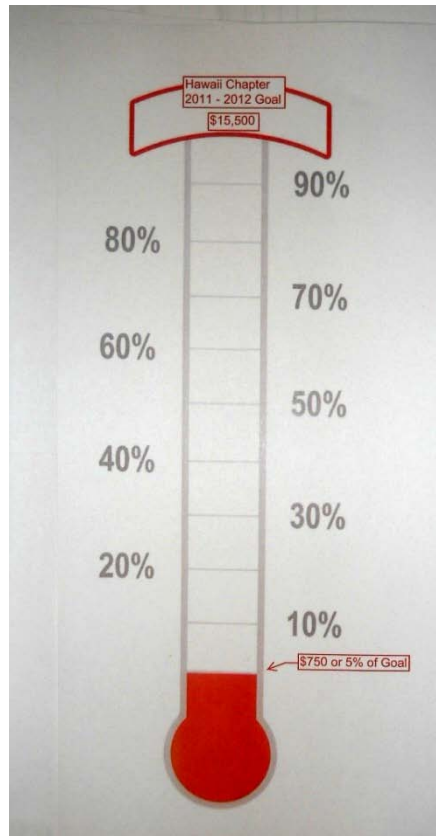
John H. Gesser,  
Rory T. Itano

**\$149-\$100:**

Min Zhong,  
Kenneth J Richardson,  
Marites Calad,  
Stephen Leis,  
Fred J Moore,  
Nathan Henry Gellert,  
Dean S Borges,  
Alan S Lloyd,

**\$99-\$50:**

Ross S Sasamura,  
John S Juckiewicz



**Our Goal is: \$15,500**

**Today's level \$750**



Dean Borges, Research Promotion chair



Introduction to  
ASHRAE Research

### Money Raised for Research since 2006-07

	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12
Hawaii	\$63,062	\$11,500	\$48,633	\$15,051	\$8,463	\$750

## *From the Editor*

Welcome back to another year ASHRAE Hawaii members! I hope your summer was enjoyable yet productive!

My name is Barry Jim On, P.E. and I am the incoming Vice President for ASHRAE Hawaii and your newsletter editor for this coming year. I would first like to commend our President Elect, Kevin Saito, P.E, LEED for all of the hard work he put into this newsletter last year and all the others before him. I think the format is great and sure makes my job easier as your new editor. I will pledge to do my best and provide prompt deliveries of your newsletter so that all of you are kept abreast of upcoming and past ASHRAE Hawaii events.

This year actually started in June 2011 when we installed and welcomed in a new Board of Governors and Executive Officers for the 2011-2012 year. As Kevin put it in his last news letter, "THERE'S A LOT TO DO! Running a Chapter with an all-volunteer staff is challenging even in the best of economic times and almost Herculean during the past few years." We would like to reiterate that this is YOUR chapter and the success of this Chapter and the benefits it provides to our membership will solely rely on the effort its volunteer members put into it. We encourage as much participation as possible!! Get involved and let's have some fun at the same time.

I won't say much more than this, but we look forward to seeing all of you this year! Have a good one!!

Barry Jim On, P.E.