

HE EA MAKAMAE



February 2, 2018

P.O. Box 3916, Honolulu HI 96812-3916
Ashraehawaiiichapter.info

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President's Message

By Kevin Luoma, P.E.

Aloha members of the Hawaii ASHRAE community.

January was another eventful month for the engineering community of Hawai'i. In the beginning of the month was the chapter meeting, in the middle of the month was the VEX Robotics State Championships and at the end of the month was the ASHRAE Winter Conference and Expo in Chicago.

The January chapter meeting had two great presentations. The first one was by Scott Hockin and he discussed domestic water heating with focus on water storage vessels. The main presentation was by Kristina Sells of WSP who discussed the different types of building acoustics as well as some best practice in acoustical design. The February meeting has two similarly great presentations with the main presentation discussing different types of refrigerants. If anyone would like any of the powerpoint presentations let the ASHRAE board know.

I had the opportunity to be a judge for the VEX Robotics State tournament at the Kamehameha Kapalama campus on Jan. 14th. For those who are not aware, VEX Robotics is the leading provider of educational and competitive robotics products to schools, universities and robotics teams around the world. It puts on more than 750 tournaments with over 10,000 teams from 32 countries and holds a worlds championship each year. The robots that these elementary, middle school and high school students made were awe inspiring with such features like sensors that could tell which colors rings were and follow lines through the play area. Watching the autonomous competition made me believe autonomous vehicles owning the roads is very near. I would recommend everyone to encourage their sons and daughters to participate and to also volunteer in the tournaments. ASHRAE members were well represented at the tournament as volunteers and spectators.

From January 20th to 24th was the ASHRAE Winter Conference and Expo in Chicago. The 2018 Expo hosted more than 2,000 exhibitors and 65,000 industry professionals. Every year the event gets bigger and bigger and this was the biggest one yet. Being so isolated here in Hawaii it is difficult to get to see the different technologies that are out there and the event gives engineers the opportunity to see what the engineering community has to offer.

Look forward to seeing everyone at the February meeting on the 8th and then the technical seminar in March!

Mahalo Nui Loa,
Kevin Luoma, PE
2017-2018 Hawaii ASHRAE Chapter President



*Chapter President
Kevin Luoma, P.E.
WSP Hawaii*

February Chapter Meeting

Date: Thursday 8 February 2018

Where: The Plaza Club, 900 Fort St. Mall, 20th Floor,

www.theplazaclub.com

Registration: Starts at 5:30 pm. Contact Justin Choriki at jhchoriki@burnsmcd.com for additional info.

Technical Session: 6:00 pm

Dinner: Approx. 7:00 pm

Main Program: 7:30 pm

Adjournment: Approx. 8:30 pm

Cost: \$45 per ASHRAE member; \$50 per guest; \$55 at the door.

Payment via credit card: <https://ashraehawaiichapter.info>

Otherwise, make check payable to ASHRAE Hawaii Chapter.



Next Chapter Meeting: Technical Seminar - Wednesday 7 March 2018 at Ala Moana Hotel

Technical Session – Temperature and Humidity Control In Operating Rooms



*R.J. Ritter
Hawaii Systems
Sales Manager
Trane*

This presentation will cover:

Trane CDQ, Cool Dry Quiet

- CDQ extends the application range of mechanical (vapor-compression) cooling equipment
 - Lowers the achievable SA dew point by 5°F to 10°F
 - Eliminates the need for an active desiccant unit in most commercial and institutional applications
 - Uses less energy than cooling plus reheat
 - Fewer cooling tons, little or no reheat, warmer coil temp
- CDQ is *not* exhaust-air energy recovery
 - Does not require a separate exhaust air stream
 - Cross-leakage is not a concern (same airstream)

Ideal applications

- Laboratories
- Hospitals, OR, Pharmacies
- Dry storage - Warehouses
- Museums - Rare Books, Archives
- Humidity-sensitive comfort applications

About the Presenters:

RJ Ritter is the System Sales manager with Trane and Mark Hashimoto is a Sales Engineer with Trane. Together they have been providing equipment and controls support to the engineering and contracting community in the State of Hawaii for over 25 years.

Main Presentation – Natural Refrigerants



*Keilly Witman
Owner*

*KW Refrigerant
Management
Strategy, LLC*

*NASRC Board Co-
Chair*

The use of natural refrigerants is growing rapidly in the supermarket and food retail industry as a low-GWP solution. This presentation will cover the regulatory factors driving the transition to low-GWP refrigerants, the fundamentals of natural refrigerants and the various system and equipment applications. There will also be a special focus on the current efforts to overcome gaps in safety and engineering standards.

Presentation topics:

- Who we are and why we focus on natural refrigerants
- Policies and regulations impacting refrigerants
- The benefits and challenges of natural refrigerants in supermarket applications
- NASRC & ASHRAE - how we are working together

About the Presenter:

Keilly Witman is the owner of KW Refrigerant Management Strategy, a consulting firm that helps industry manage the many strategic challenges of today's and tomorrow's refrigeration world. Prior to starting her own firm, she single-handedly ran the EPA's GreenChill Partnership, which grew to encompass over 8,500 supermarkets nationally during her tenure. Keilly has held over 80 webinars on refrigeration and refrigerant management, co-authored best practice guidelines for refrigerant leak prevention and repair, installation leak tightness, and R-22 retrofits, written dozens of articles on current topics in refrigerant management, and developed tools to help supermarkets calculate the financial and environmental impact of their refrigerant emissions. She was named one of the industry's 50 most influential people by Supermarket News, and in 2016 she won regional and national awards for her articles on supermarket refrigeration.

Keilly has a Law Degree and a Master's in Environmental Policy from Vermont Law School.

About NASRC: The North American Sustainable Refrigeration Council (NASRC) is a non-profit organization dedicated to advancing natural refrigerants in the commercial refrigeration sector. Together with our members, we are taking action to overcome the hurdles that are slowing adoption including reducing overall costs, increasing access to trained contractors and service technicians, and addressing outdated codes and standards.

2017-2018 Chapter Program

Speaker	Topic
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September 14th (Membership Promotion)

Do's & Don'ts	RJ Ritter & Joe Palaszynski Trane	Wireless Controls
Main Presentation	Howard Wiig Hawaii State Energy Office	2015 IECC

October 26th (Research Promotion)

Do's & Don'ts	Charlie Waddell Global Plasma Solutions	Needlepoint Ionization for IAQ
Main Presentation	Bjarne Olesen ASHRAE President	2017-18 Society Year Theme

November 16th

Do's & Don'ts	Joseph Welsh Leonard Valve	Electronic Mixing Valves
Main Presentation	Brad Rockwell Kauai Island Utility Cooperative (KIUC)	Solar Array Battery Storage

December 7th

Christmas Party & Past Presidents Night @ Honolulu Country Club		
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January 11th

Do's & Don'ts	Scott Hockin PVi Industries	AquaPLEX Water Heaters
Main Presentation	Kristina Sells WSP Hawaii	Acoustics

February 8th (Membership Promotion)

Do's & Don'ts	TBD	TBD
Main Presentation	Danielle Wright North American Sustainable Refrigeration Council	Natural Refrigerants

March 7th (Technical Seminar)

Theme: "Building Wellness" @ Ala Moana Hotel		
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April 12th (Research Promotion)

Do's & Don'ts	TBD	TBD
Main Presentation	Raymond Patenaude ASHRAE Distinguished Lecturer	Fundamentals of Building Envelopes and Humidity Control in Hot & Humid Climates

May 10th

Do's & Don'ts	UH Manoa Students	2018 ASHRAE Student Design Competition
Main Presentation	Roundtable	Facilities Engineers

Chapter Officers

<p>Chapter Officers for Society Year 2017-2018</p> <ul style="list-style-type: none"> • President: Kevin Luoma, P.E. • President Elect: Mofazzal Mir, P.E. • Vice President: Willie Diguc, P.E. • Secretary: Samantha Nakamura, P.E. • Treasurer: Matthew Tio 	<p>Committee Chairs</p> <ul style="list-style-type: none"> • Attendance and Reception Chair: Justin Choriki • Energy Awards Chair: Min Zhong, P.E. • Technology Awards: Kelsey Koshi • Grassroots Government Activities Chair: Tony Rasabout • Historian Chair: Donna Kishi • Membership Promotion Chair: William "Bill" Lee, P.E. • Newsletter Editor Chair: Willie Diguc, P.E. • Chapter Programs Co-Chairs: Andrew Crossland & Dan Mestas • Refrigeration Chair: Jeanessa Slaughter • Research Promotion Chair: Dave Drapalik • Student Activities Co-Chairs: Diamond Pedro & Jack Mullen • Technical Seminar Chair: Josh Jackson • Technology Transfer Chair: Mofazzal Mir, P.E. • Webmaster Chair: David Lebowitz • Chapter Electronic Communications Chair: Kalani Castro • Young Engineers of ASHRAE Co-Chair: Joshua McDonough & Tyson Quisano • Sustainable Activities Chair: Joseph Palazynski
<p>Chapter Board of Governors</p> <ul style="list-style-type: none"> • Josh Jackson • William "Bill" Lee, P.E. • David Lebowitz 	



*Kevin Luoma, P.E.
WSP Hawaii*



*Mofazzal Mir, P.E.
InSynergy
Engineering*



*Willie Diguc, P.E.
Oahu AC*



*Samantha Nakamura, P.E.
WSP Hawaii*



*Matthew Tio
DMG Hawaii*



*Josh Jackson
Air Treatment Corp.*



*William "Bill" Lee
Coffman Engineers*



*David Lebowitz
Oahu AC*

Chapter Committee Chairs



*Kelsey Koshi
ACS Supply Corp.*



*Tony Rasabout
Coffman Engineers*



*Donna Kishi
Norman S. Wright*



*Andrew Crossland,
P.E.
Crossland
Engineering*



*Dave Drapalik
Air Treatment Corp.*



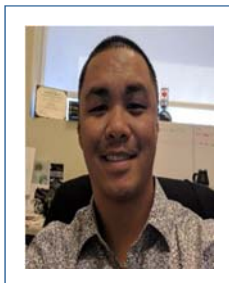
*Diamond Pedro
ACS Supply Corp.*



*Jack Mullen
Trane*



*Joshua McDonough
WSP Hawaii*



*Tyson Quisano
Air Treatment Corp.*



*Joe Palasynski
Trane*

January 2018 Membership Meeting Pics



January 2018 Membership Meeting Pics Continued



2018 VEX Robotics State Tournament at the Kamehameha Kapalama campus Pics



Young Engineers of ASHRAE (YEA) Announcement

Join Us for our first Young Engineers in ASHRAE (YEA) event of the year!

Learn how to read Mechanical Drawings, Legends and Details. You will be able to design your own HVAC layout and compare your design to leading industry professionals.

Food will be provided!

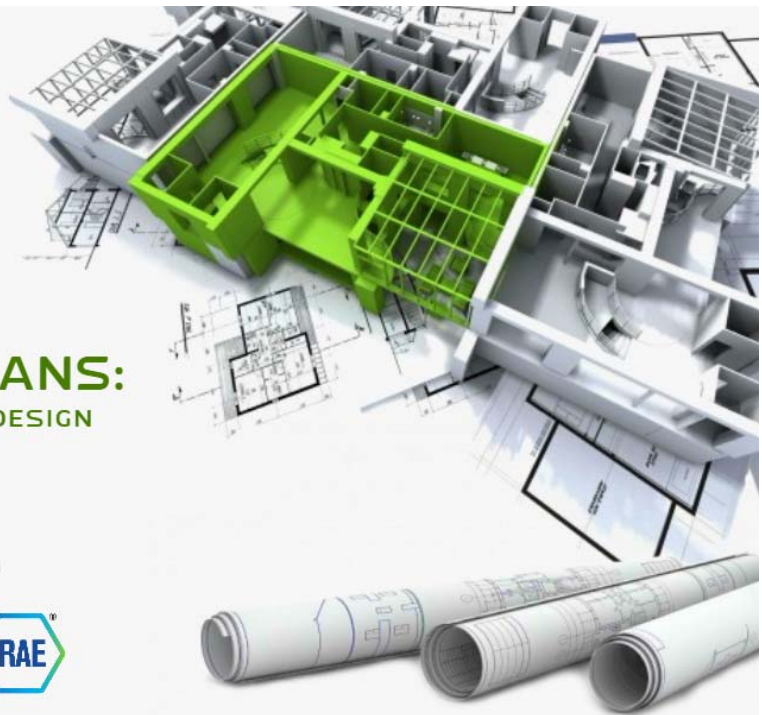
HOW TO READ PLANS: AN INTRODUCTION TO HVAC DESIGN

Thursday February 15, 2018
5:30pm - 7:30pm

RSVP to: joshua.mcdonough@wsp.com



Bank of Hawaii
130 Merchant St., 5th Floor
Honolulu, HI 96813



Technology Awards Report

By Kelsey Koshi

I came across two (2) interesting articles from the ASHRAE Journal January 2018 edition. The first one was about advanced energy design guides for K-12 schools, with the article titled "Next Generation of School Design & Operation" written by Paul A. Torcellini, Ph.D., Member ASHRAE and Shanti D. Pless, Associate Member ASHRAE. The second article was titled "6 Reasons Why Commercial Buildings Operate Without Adequate Ventilation" written by Marwa Zaatai, Ph.D., Associate Member ASHRAE. If you members get a chance, take some time and read it.

Mahalo Nui Loa!

Grassroots Government Advocacy Committee (GGAC) Report

By Tony Rasabout

Aloha All,

2021 UPC/UMC CODE DEVELOPMENT TIMELINE
DEADLINE FOR SUBMISSION OF PROPOSALS March 16, 2018

The International Association of Plumbing and Mechanical Officials (IAPMO®) Board of Directors has announced a significantly earlier timeline for the development of the 2021 editions of the Uniform Plumbing Code (UPC ®) and Uniform Mechanical Code (UMC ®) than previously employed . Whereas past practice was for IAPMO to publish the codes early in the edition year, the 2021 UPC and 2021 UMC will be available in the first quarter of 2020.

The IAPMO consensus development process is accredited by the American National Standards Institute (ANSI), gathering the largest assembly of plumbing and mechanical experts in the world at its annual education and business conference and technical committee meetings, and enabling anyone – members and non-members alike – to have a voice on new proposals to the code. The 2021 editions of the UPC and UMC will mark the seventh time these codes have been developed under this ANSI-accredited process.

Under the new timeline, the 2021 development process will begin with the Call for Proposals on Oct. 2, 2017, with a closing deadline of March 16, 2018. The entire 2021 code cycle timeline, as well as background on IAPMO's ANSI-accredited consensus development process, can be found at <http://codes.iapmo.org/>.

IAPMO was granted Audited Designator Status by ANSI in September 2011, enabling the 91-year-old code development body to self-designate the UPC and UMC as American National Standards (ANS) and forgo approval by the ANSI Board of Standards Review. The 2015 and 2018 editions of each code were designated by IAPMO as ANS in this manner.

ANSI accreditation signifies that the procedures used by standards setting organizations such as IAPMO meet the Institute's Essential Requirements for openness, balance, consensus, and due process. This process brings together volunteers representing a variety of viewpoints and interests to achieve consensus on plumbing and mechanical practices. The UPC and UMC are the only plumbing and mechanical codes of practice to hold the designation of American National Standards.

IAPMO urges its members and other interested parties to get involved in the code development process to ensure effectiveness in preserving the public health, safety, and welfare through strict governance of the Uniform Codes . Installers, plumbing and mechanical officials, the construction industry, engineers, and manufacturers all benefit from a cooperative effort in developing codes. For more information, direct your browser to IAPMO's website, www.iapmo.org.

Mahalo Nui Loa!

Membership Promotion Report

By William (Bill) Lee, P.E.

Hi,

For January 2018, please welcome to the family new member Mr. Robert L Tuchman.

Please let me know if I can help you in any way concerning your membership and renewal process or if you want to upgrade your membership.

Thank you,

William (Bill) Lee

Membership Promotion Chair

Job Posting

Carrier Hawaii

Commercial Applied Sales Engineer

Motivated, disciplined, good attitude, passionate for learning. 3-4 years HVAC experience, B.S. degree in Engineering. Job requires assisting customers with design/specs, equipment selections, engineering software, and bidding projects. Must be willing to be trained: in-depth factory training and personal development. Requires mainland travels. Salary commensurate with experience plus sales incentive. Excellent benefits.

Email resume to ckuroiwa@carrierhawaii.com or fax to 682-2828 Attn: Cheryl Kuroiwa.

Message from the Newsletter Editor

By Willie Diguc, P.E.

January was an exciting month. I hope some of you got a chance to check out the VEX Robotics State Tournament held at Kamehameha Schools' Kapalama Campus in upper Kalihi. Also, the ASHRAE Winter Conference and AHR Expo was held this month in Chicago, Illinois at the McCormick Place. The expo hosted more than 2,000 exhibitors and estimated to have more than 65,000 industry professionals.

February is going to be another exciting month with our chapter meeting being held on Thursday Feb. 8, 2018 at The Plaza Club. We have special guest speakers RJ Ritter, Mark Hashimoto, and Keilly Witman. Make it out to the meeting if you can.

As always, if you have anything ASHRAE related you want posted in the monthly newsletter, please send your email to admin@ashraehawaiichapter.info. All submitted material is subject to approval.

Mahalo and A hui hou!

ASHRAE Hawaii Chapter

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