

ASPELA TIMES

The News of the Los Angeles Chapter of The American Society of Plumbing Engineers

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**ASPE LA Feb 7th Joint Meeting w/ASHRAE
Electrification, Why Heat Pumps?
[click here](#)**

[Click here for tickets](#)

ELECTRIFICATION. WHY HEAT PUMPS?



**Feb 7th, 2023
5:30pm-8:00pm**

**Bob Woods
Sales Engineer Air Treatment**

Quiet Cannon Restaurant,
901 Via San Clement, Montebello
Raffle prizes and Networking



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February 2023

Volume 23 Issue II

PRESIDENT'S REPORT **Thura Zin CPD, GPD** **President**



January speaker:
Eric Decker P.E., CPD
Dawson Company

We had a very good year opening meeting on January 11, 2023. 29 in-person and 20 virtual attendees, which is very good. We are looking to meet our post-pandemic attendee average of 45 people minimum. This month we have a joint meeting with ASHRAE at the Quiet Cannon, Skyview Lounge. Due to the ASHRAE meeting place, our meeting will be Tuesday, February 7, 2023, 5:30 pm. Not on the first Wednesday of the month. The meeting address is 901 Via San

ASPE LA Feb 7th Joint Meeting w/ASHRAE
Electrification, Why Heat Pumps?
[click here](#)

Clemente, Montebello. We want ASPE LA members to come join to support our chapter. I also want our members to get tickets as early as possible. The ASHRAE has an early bird price when you buy a ticket early.

Come join us for an exciting networking opportunity at our joint meeting between ASHRAE and ASPE! We will be featuring a presentation by Bob Woods, a 30+ year veteran of the industry, on the topic of 'Electrification, Why Heat Pumps'. The presentation will cover the origin of heat pumps, application differences between mechanical systems and domestic hot water plumbing systems, and how heat pumps are emerging as the technology of the future.

Starting from this month, our chapter does not have virtual meetings anymore. We want our chapter members to come and *please continue reading on page 20*

February Meeting

Date: February 7, 2023
Time: Check-in will start at 5:30pm. Presentation to begin at 7:00 pm.
Place: Quiet Cannon
901 Via San Clemente,
Montebello CA 90640
Program: Electrification...
Why Heat Pumps?
Speaker: Bob Woods,
Sales Engineer at
Air Treatment Systems

Future events include:

- ASPE Golf
- ASPE Product Show

See inside for Details...



inside...

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[Click here for tickets](#)

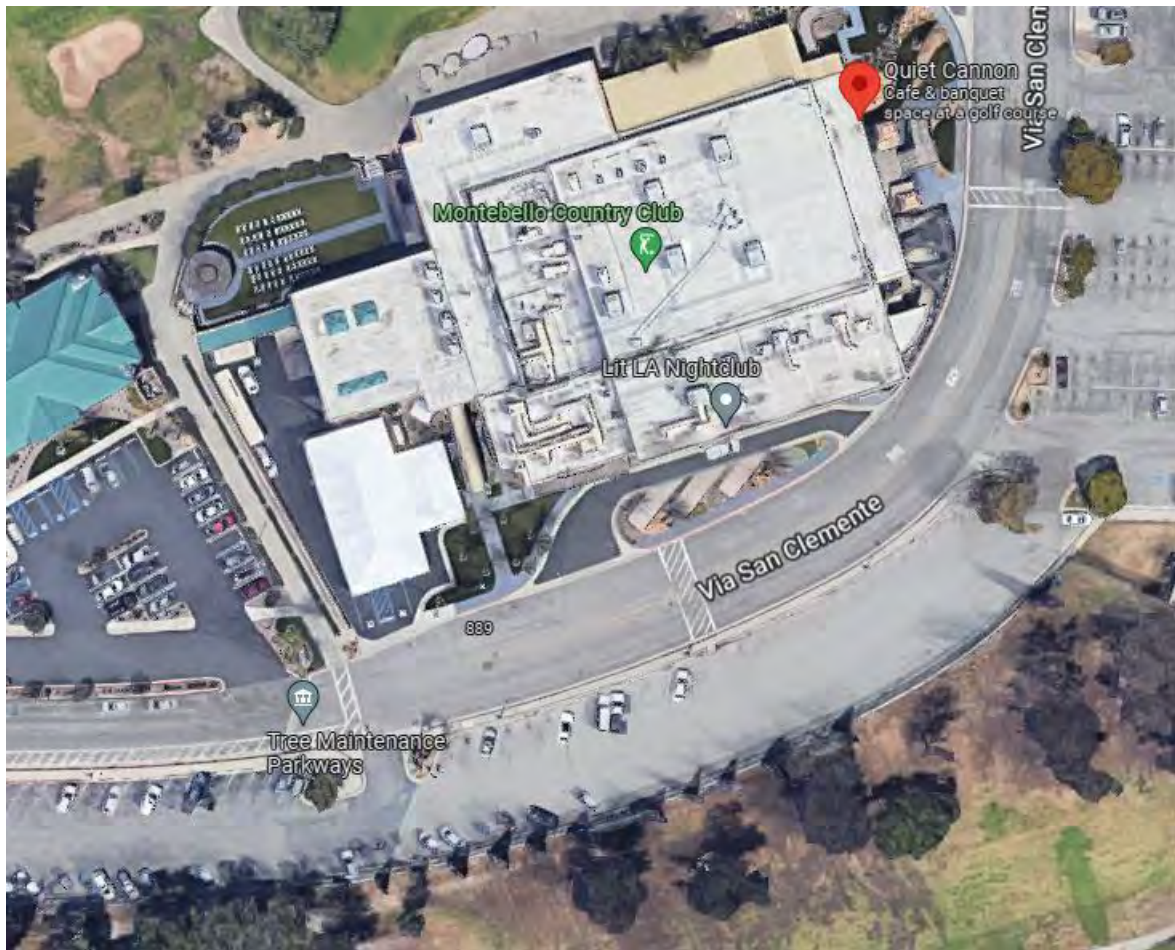
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*See back page for schedule

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TECHNICAL REPORT

Vahan Margaryan CPD, GPD
V.P. Technical

Hello fellow ASPE LA members. Hope you are doing well. I would like to start with some very important information: First - ASPE Los Angeles Chapter is not offering an online joining option for our monthly meetings. So, from now on we will be having in-person only meetings. Second - our February meeting is going to be a joint meeting with ASHRAE SoCal chapter at Quiet Cannon Conference & Event Center (901 Via San Clemente Montebello, CA 90640) on February 7th. For registration, please visit Chapter Meetings | ashraesocal (ashrae-socal.org) website and click "Register for the next meeting" link. Please note that ASHRAE meeting takes place every first Tuesday of the month. There is an early bird registration option with discounts for ASHRAE and ASPE members – take advantage of this offer.

ASPE LA Chapter Board of Directors and committee members are still working on a golf Tournament and summer picnic details so no updates at this time.

I also would like to thank Mr. Eric Decker PE CPD for his cooperation with ASPE LA January meeting. Heat pump hot water generation is getting more and more tangible with the global decarbonization process and his presentation on heat pump plants different sizing methods are perfectly aligns with today's trend. Thanks Eric!

The International Association of Plumbing and Mechanical Officials (IAPMO®) is seeking volunteers to participate on two technical committees working toward the development of the 2027 editions of the Uniform Plumbing Code (UPC) and Uniform Mechanical Code (UMC). The deadline to submit an application is January 31, 2023.

Reminder! - ASPE's popular MedGas Workshop is coming to the West Coast in 2023: It will be held in Irvine, California from February 23–26. Registration is now open. Please visit ASPE.org if interested.

Be well, stay well.



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TEST REPORT

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<http://www.iapmort.org>

Report Number: 2536-18001-002 Project No.: 29225
Report Issued: February 26, 2018.
Client: Aqua-Rex
3301 Spring Mountain Road Ste 18
Las Vegas, NV 89102 Contact: Jonny Secombe
Source of Samples: The samples were shipped to IAPMO R&T Lab from Aqua-Rex, and received in good condition on October 11, 2017.
Date of Testing: October 25, 2017 through December 15, 2017.
Sample Description: Scale Prevention Device; model: Aqua-Rex WK1-E.
Scope of Testing: The purpose of the testing is to determine the efficacy of the Scale Prevention Device per section 5 of IAPMO IGC 335-2018, entitled "Rapid Scaling Test for Scale Prevention Devices".

CONCLUSION: **When tested per Section 5 of IAPMO IGC 335-2018, Aqua-Rex WK1-E reduced scaling by 83% when applied to Las Vegas water heated to 180°F.**

Tested by,

Reviewed by,

Hank Ninh
Hanks Ninh, Project Engineer

Sean Vuu
Sean Vuu, P.E., Manager, Specialty Projects

LEGISLATIVE REPORT • Vivian Enriquez CPD, FASPE • V.P. Legislative

What will be our contribution to help the U.S. Department of Energy to reduce water use? Will ASPE find an opportunity to explore emerging technologies and share innovative strategies and market leadership in energy and water efficiency? In my opinion, we can, we are a group of engineers and manufacturers that through our design and engineering knowledge, we will be able to help. I wanted to share the following information that I found on the Department of Energy (DOE) website.

Better Buildings is an initiative of the U.S. Department of Energy. Through DOE's Better Buildings Initiative, more than 900 commercial, public, industrial, and residential organizations share their proven energy efficiency strategies and inspire others to tap into the continued potential for energy efficiency. Collectively these organizations have saved 2.5 quadrillion Btus of energy and 155 million metric tons of carbon dioxide. Their partners have reduced their water use by 13.7 billion gallons.

Better Buildings offers a wide array of engagement opportunities. Please explore the following upcoming events or visit the website for upcoming sessions.

<https://betterbuildingsolutioncenter.energy.gov/challenge>

Discover online training and education opportunities from DOE and Better Buildings Affiliates who are working to promote energy efficiency in U.S. buildings and manufacturing plants.

- February 7, 2023 – 11:00am – 12:00pm – ABCs of Multifamily Electrification Strategies
- February 14, 2023 – 11:00am – 12:00pm – Designed to Deliver: Lessons Learned from Architects, Engineers, and Contractors in Zero-Carbon Buildings
- March 7, 2023 – 11:00am – 12:00pm – It's Electric! Electrified Alternatives to Industrial Fossil Fuel Systems
- March 14, 2023 – 11:00am – 12:00pm – From Measuring to Managing: Submetering Strategies for Plug and Process Loads in Healthcare Facilities

OTHER INITIATIVES:

- Waste Reduction Network:

What is the Waste Reduction Network?

Manufacturers, companies, schools and government across the country are looking to strengthen their competitiveness and sustainability by setting and realizing ambitious waste reduction goals. By reducing waste, these organizations also save energy. More efficient use of materials and higher recycling reduces the amount of energy needed to transport and treat waste as well as indirect GHG emissions

To facilitate waste reduction the Department of Energy (DOE) Better Buildings, Better Plants Waste Reduction Network brings industry-leading organizations together to demonstrate successful approaches to waste management.

continued on page 23



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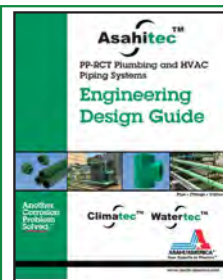
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When: Saturday, April 15, 2023

Sign-in starts at 7:15 a.m. Shooting starts at 8:00 a.m.

Where: Moore N' Moore Sporting Clays

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818-890-4788

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BOARD MEETING MINUTES

Jeff Atlas

Administrative Secretary... and your newsletter editor

The board of directors all met prior to the general meeting as usual. Everybody was present.

This year is nearly finished and the events that took place in past years were discussed as real possibilities for 2023. Everyone is full onboard to continue with a normal season of events such as our annual golf tournament, a chapter picnic, possibly a fishing trip and Christmas/holiday party.

We have many speakers lined up with topic pertinent to our society's goals toward the education of its members. You should most definitely plan to attend meetings through all of next year.

The meeting was adjourned just before the general meeting was ready to begin.



GENERAL MEETING MINUTES

Jeff Atlas

Administrative Secretary... and your newsletter editor

We had 48 people in attendance between those in the banquet room and those viewing on Zoom.

We recited the pledge of allegiance and sat down for dinner. Thura recognized past presidents among us and the proceeded to introduce the speaker for the evening, Eric Decker PE, CPD from Dawson Compant.

Our speaker gave all in attendance the current challenges with regard to heat pump specification and many questions arose from a very interested and attentive room full of ASPE LOs Angeles members.

Several raffle prizes were handed out at the conclusion of the meeting and as expected, everyone who showed up had a wonderful and informative experience.



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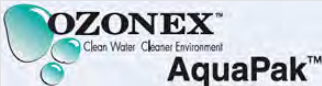
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Meet Marla Shives

Marla is Technical Service Manager in the McWane Plumbing Group covering the wild, wild west—California, Nevada and Arizona. She knows a bit about “taming” all things DWV as she worked for the LAPD heading up the volunteer group called Mounted Assistant Unit. Her horse was even chosen as a police horse patrolling the streets during the 1984 Los Angeles Olympic games.

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MEMBERSHIP REPORT

Robert Galaviz CPD
V.P.Membership

As we begin the year of 2023, I would like to thank all our members for their outstanding level of support for ASPE. The organization relies on your support to continue being a beacon for our industry.

We've had a flock of new members join the organization within the last month.

They are, in no particular order: Pablo Rodriguez Torres, P.E., George Istefan, Miguel Perez, Haitham Maswadeh, Kristen Cole and Franz Allendorfer. Thank you all for making the commitment to become members of LA ASPE.

We truly appreciate you choosing us as your local chapter and look forward to seeing you at our monthly meetings!

If any current members need to submit their current dues or signup a new member, please visit the following URL: <https://www.aspe.org/membership-global-community/join/>



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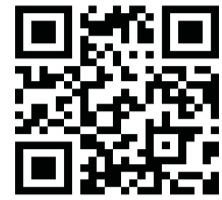
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PRESIDENT: continued from page 1

join our in-person meeting. We're looking for the meeting place which will be more centralized to commute for our members from south and west of downtown LA.

I would like to thank our speaker Mr. Eric Decker for a very good presentation regarding the water heater sizing methods. Also present how to size the heat pump water heaters.

Our golf committee is looking for our next golf tournament move to June 16, 2023, due to some activity in May at Rose Bowl. Still our Golf Committee Chair Bill Siler is not 100% comfortable about some activity from the golf course together with our playing date. We'll let everybody know.

The Medical Gas Workshop registration did not last long and was not able to register, which sold out very quickly. If you are planning to join in the future, please get early approval from your office and register as soon as the registration. The workshop is 32 hours, and the fee will be \$2,000. The course will fulfill the ASSE 6060, Medical Gas Systems Designer professional certification.

The next ASPE Technical Symposium will be held September 28 – October 1, 2023, in Bellevue, Washington (outside of Seattle). If you are interested in showcasing your expertise by presenting a technical session, ASPE has opened the call for presentations at <https://www.aspe.org/2023-presenter->

application/

The deadline to submit a presentation proposal is February 28, 2023. If you are planning to attend, please prepare for that.

Here is the link to get ASPE and ASHRAE joint meeting flyer: <https://mailchi.mp/6230dd602850/february-2023?e=d701cdafc8>

And the ticket information: <https://www.eventbrite.com/e/ashrae-socal-feb-7th-joint-meeting-waspe-electrification-why-heat-pumps-tickets-517134191287>

If you have problem with ASPE member ticket, please let me know. We will be the same price as an ASHRAE member's price.

As always, do not hesitate to reach us or any board member for any topics that you may want to see in any of our technical programs. Watch your email for the next meeting invite and I look forward to seeing you all at the next meeting.




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VP LEG: continued from page 6

Why Join?

In addition to improving their sustainability profile, organizations that reduce waste can save on operating costs associated with waste disposal, energy use, and raw material purchases. The Better Buildings, Better Plants Waste Reduction Network gives partners the opportunity to:

- Formalize their commitment to waste reduction by setting a public goal with support from DOE.
- Network with peers to share waste reduction solutions through webinars, conferences, etc.
- Receive technical assistance from DOE on issues such as data tracking and waste reduction best practices.
- Earn recognition for the progress made in reducing waste and associated energy use.

- Water Savings Network:

What is the Better Buildings Water Savings Network?

Through the Better Buildings Water Savings Network, DOE brings organizations together to discuss and demonstrate successful approaches to conserving water in buildings, plants and multifamily housing. All facility owners and managers are invited to build on the progress already made by Better Buildings Challenge partners who have set water intensity goals and reduced their water use by more than 10 billion gallons since 2015.

Through the Better Buildings Initiative, hundreds of leading organizations have prioritized greater energy efficiency; for many of these organizations the nexus between energy and water is profound. In addition to lowering operating costs, increasing reliability, and improving water quality, saving water also saves the energy required to transport and treat it.

Prioritizing water efficiency is a necessary response to the risks of climate change, particularly in water stressed regions. In 2020, on average, 28% of the U.S. population experienced conditions ranging from abnormally dry to extreme drought. This increased to 39% in the second half of the year, and drought conditions continued to intensify into 2021.

Why Should Organizations Join?

Water security is a growing concern, particularly in water-stressed regions of the country. Leading organizations, cities, and states have already responded by establishing water management strategies and reducing water use across their buildings and operations. To support these efforts, the Better Buildings Water Savings Network gives partners the opportunity to:

- Receive technical guidance from DOE and supporting organizations on issues such as data tracking and water management best practices.
- Be part of a network of peers working to address similar issues and share water-saving solutions.
- Set a water goal for all or a portion of their portfolios (e.g., in water-stressed regions) in partnership with DOE, track progress over time; DOE will profile successful and innovative efforts.





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LEED Platinum-Certified Apartment Building Uses Submetering to Dramatically Reduce Water Consumption

PROJECT BACKGROUND

A 32-story, new construction, 500-unit apartment building known as 360 State Street in New Haven, Connecticut, wanted to install an innovative submetering system to track the residents' water & hot-water heating data while providing tenants with an easy-to-use web portal to access and manage their utility data.



H2O Degree delivered a submetering system consisting of a 1,000 dual point-of-entry water meters (hot & cold) and 591 thermostats. The battery-powered wireless water meters communicate with the thermostats. The thermostats act as transceivers, a unique feature of H2O Degree's wireless network, which results in substantial savings compared to using traditional wireless repeater networks. When considering the minimal wiring it took to set up the radios and ZigBee mesh network the system uses, the system was the most cost effective option for the building.



PLUMBING CONFIGURATION

The dual point-of-entry submetering at 360 State Street means that the plumbing is configured so that one riser branches into the apartment for cold water. A second



riser delivers domestic hot water created centrally by recovering heat from a CHP system. Water enters the apartment in the utility closet and there are two water meters in each apartment, one for cold and one for hot water.

WATER & ENERGY CONSERVATION SAVINGS

Typical 1-2 bedroom apartments at 360 State Street average 45 to 55 gallons of water use per day. This is almost half the national average of 70-90 gallons per day. This savings is the result of billing tenants for water and proactive water leak detection. Another energy-savings benefit came from billing tenants for electricity and providing thermostat controls resulting in heating & cooling costs being 10 to 20% below apartments without submetering.



Read the full case study on 360 State Street by visiting H2O Degree's website at www.h2odegree.com/aspela.php



To request information on H2O Degree leak protection and submetering solutions contact our local representative Keyline Sales at (562) 904-3910.

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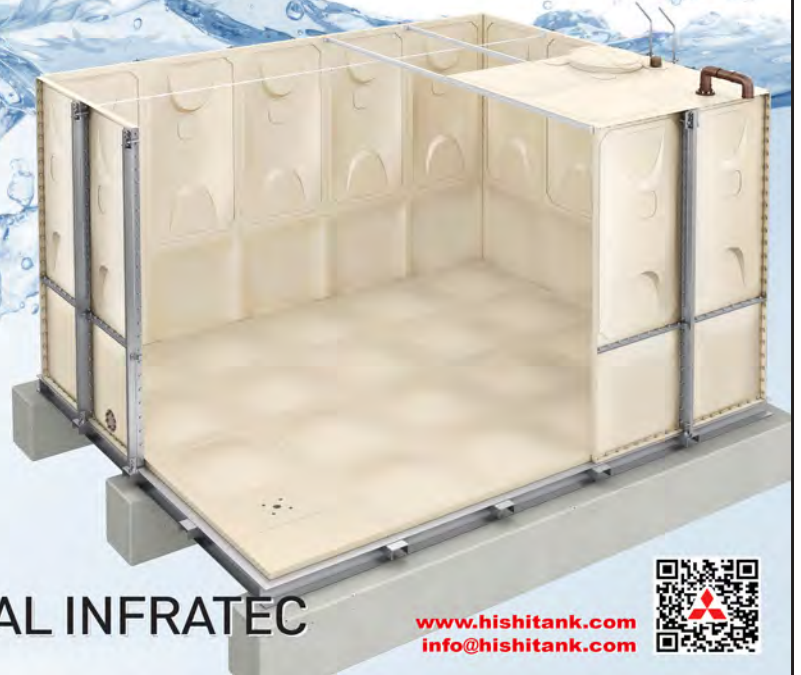
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President
THURA ZIN, CPD, GPD
 ARUP
 (310) 650-7734
thurazin53@gmail.com



Corresponding Secretary
HAL ALVORD, CPD, GPD
 (818) 267 7629
gogetemtiger@juno.com



Editor
JEFF ATLAS
 Raypak
 (661) 478-4565
aspeneews@gmail.com



Vice President Technical
VAHAN MARGARYAN CPD, GPD
 ARUP
 (310) 422 7425
vahan.margaryan@arup.com



Treasurer
EDGAR OCHOA
 Southcoast Engineering Group
 (818) 224-2700
eochoa@scegin.com



Women of ASPE Region 4 Liaison
LINDA DEUNAY
 Enviro Products West
 (818) 687-6910
linda@epwest.com



Vice President Legislative
VIVIAN ENRIQUEZ, CPD, FASPE
 (310) 404-1874
venriquez5824@gmail.com



Administrative Secretary
JEFF ATLAS
 Raypak
 (661) 478-4565
aspeneews@gmail.com



Chapter Affiliate Liaison:
JOHN ZAGORSKI
 Mainline Sales
 (562) 447-4561
jzagorski@mlsalesinc.com



Vice President Membership
ROBERT GALAVIZ CPD
 Raypak
 (626) 2165-1583
robert.galaviz@Raypak.com



AYP Liaison
THERESA SIRI
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 (424)410-4406
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