

ASPELA TIMES

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

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January 2023

Volume 23 Issue I

PRESIDENT'S REPORT Thura Zin CPD, GPD President



December speakers:
Peter Kraut - SCEG
Erin McConahey - ARUP

On behalf of the LA Chapter Board, we want to wish all our members, friends, and families a Happy new year and a Happy Holiday. We hope you enjoyed some fun and relaxing time with family and friends. We also thank all of you for your continued support to the Society and LA Chapter. I would like to thank our speakers Ms. Erin McConahey (ARUP) and Peter Kraut (SCEG) for a very informative presentation at the December meeting "Decarbonization Panel Discussion".

Due to the new year being close to the first Wednesday of the month, our New Year's meeting will be on January 11th. The meeting will start at 6:30 p.m. We are still presenting both Virtual and in-person this meeting. Our speaker will be Mr. Eric Decker P.E, CPD. He will present a "Review of DHW Sizing Methods for both Gas-Fired and Centralized Heat Pump Water Heaters". Our last month's meeting went well, due to the best topic. 30 in-person and 18 virtual attendees, which is very good. We are looking to meet our post-pandemic attendee average of 45 people minimum. We're looking for the meeting place which will be more centralized to commute for our members from south and west of downtown LA.

On Tues December 13, Vahan, Kurt and I joined the ASHRAE Joint meeting at Quiet Cannon. Our newsletter

please continue reading on page 20

January Meeting

Date: January 11, 2023

Time: Check-in will start at 5:30pm. Presentation to begin at 7:00 pm.

Place: Courtyard Marriott
2100 Empire Avenue
Burbank CA 91504

Program: Review of DHW Sizing Methods for both Gas Fired and Centralized Heat Pump Water Heater (CHPWH) Systems

Speaker: Eric Decker P.E., CPD
Manager - Business Development Group - Dawson Company

Future events include:

- ASPE Golf
- ASPE Product Show

See inside for Details...



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**AMERICAN SOCIETY OF PLUMBING ENGINEERS LOS ANGELES CHAPTER****January 11, 2023, Meeting****“Review of DHW Sizing Methods for both Gas-Fired and Centralized Heat Pump Water Heater (CHPWH) Systems”****By****Mr. Eric Decker P.E., CPD****Manager - Business Development Group - Dawson Company****WHAT YOU WILL LEARN:**

The presentation will cover the following topics, with time for questions:

- Overview of various sizing methods in ASHRAE/ASPE publications
- Newer sizing methods encouraged for centralized heat pump water heater (CHPWH) systems, for example Ecotope and CBECC-Res

MEETING LOCATION:

In Person:

COURTYARD BY MARRIOTT BURBANK
2100 W EMPIRE AVE, BURBANK, CALIFORNIA 91504

MEETING SCHEDULE:

In person Check in: 5:30 pm
Online Check in 6:30 pm
6:45 pm – 7:45 pm – Presentation

COST:

In Person meeting: \$45
Virtual meeting: No Cost to members

RSVP for Virtual meeting and in person:

To VP Tech - vptech.aspela@gmail.com or
Vahan.Margaryan@arup.com

By: January 9, 2023

THE SPEAKER:

Eric Decker graduated from the University of Illinois at Chicago with a B.S. in Mechanical Engineering. After graduating, he worked for Bell & Gossett in Morton Grove, IL in the Commercial Pumps Marketing Department. In Fall of 2011, Eric joined Dawson Company's Business Development Group calling on mechanical and plumbing consulting engineers in the Orange County area. In Fall of 2017, Eric became manager of the department.

Eric is a Registered Professional Mechanical Engineer (P.E.) as well as Certified in Plumbing Design (CPD). He is also past President of the Orange County ASHRAE Chapter.

If you have additional questions or needed information on his presentation, you can reach him at: edecker@dawsonco.com.

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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.

Happy New Year! Hope this year will bring prosperity and joy to us all. As ASPE LA starts a new year, we need our fellow member’s support - we are planning to have many activities in 2023 such as product show, golf tournament, family picnic, and Christmas party in December 2023. Please reach out to any board member with any fresh ideas or if you have time and are willing to help us with any of the scheduled events. Also please be advised that January 11th meeting will be our last gathering with option to join online. We are planning to have joint meeting with ASHRAE in February at Quiet Cannon event space in Montebello without any option to broadcast presentation online. Some of our fellow members have concerns with in-person meetings only and increased Covid cases. Please be assured that ASPE LA BOD closely monitoring LA County Health Department recommendations. At this point we are not

planning to extend online meeting option but will re-evaluate conditions at the end of the February.

On the another note I would like to thank Erin McConahey(ARUP) and Peter Kraut (SCEG) for very informative presentation at ASPE LA December “Decarbonization Panel Discussion” meeting. Both panelists are very respectful and well-known professionals in Mechanical/Plumbing Engineering field. Their presentation attracted many participants from LADBS, LADWP and SoCal Gas. It also generated heated but healthy discussions from the members expressing their own opinions. Once again great presentation by excellent speakers – thank you Erin and Peter.

This presentation also brought in ASPE LA longtime supporter, Amir Tabakh , who was kindly invited to conduct one of the ASPE LA meetings at the LADWP’s newly build net-zero energy facility. So, stay tuned for updates.

continued on page 23

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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

As you are reading this report, Christmas & New year is over and I hope everyone had a great and happy celebration with their family.

I came across a DSA Bulletin BU 15-02 (Revised 04/25/22) and this is regarding Water Flow Tests for Fire Protection Systems During Drought Conditions. Per DSA the purpose of this bulletin is to address water flow requirements and procedures during a drought state of emergency and to clarify that there are alternates to water flow tests and that when alternate are not available older water flow test data may be used.

What's the Background of the Bulletin per DSA? The design of fire protection systems such as fire hydrants and automatic fire sprinkler systems requires certain information about available water pressures and flow rates that are usually obtained by water flow tests. These tests result in water usage that is not reclaimed.

It also states that historically, in accordance with amendments to the NFPA Standard 13, Installation of Sprinkler Systems by the Office of the State Fire Marshal (SFM), DSA has required the water flow tests to be no older than six months at time of project submittal. Section 23.2.1.1 of NFPA 13 requires the flow test to be conducted no more than 12 months from the time of submittal and allows the authority having jurisdictions to exercise discretion when determining how current the water flow test data must be. In addition, current codes and standards accept and encourage alternate means of determining or obtaining water flow data.

In view of the above DSA have issued a "Declaration" as follows:

- 1.1 In lieu of performing actual water flow tests for initial project design purposes, DSA currently accepts and will continue to accept one of the following:
 - 1.1.1 A letter signed by the local fire authority or water purveyor certifying the available flows and pressures.
 - 1.1.2 A computer model analysis by the applicable water agency (or licensed civil or fire protection engineer) that determines the available flows and pressures. This analysis shall be performed using knowledge of the flows and pressures in the system, and account for future expected growth and water supply demands of the community.
- 1.2 DSA will accept water flow tests for the purpose of determining building fire suppression capability, design of fire hydrant systems or automatic fire sprinkler system, conducted up to 12 months prior to the data a project is submitted.
- 1.3 This direction will remain in effect until rescinded.
2. Additional Resources:
 - 2.1 2013, 2016, 2019 California Building and Fire Codes
 - 2.2 2013, 2016 NFPA 13
 - 2.3 2013, 2016 NFPA 24
 - 2.4 DSA Project Submittal Guidelines (GL) 1: Automatic Fire Sprinkler Systems





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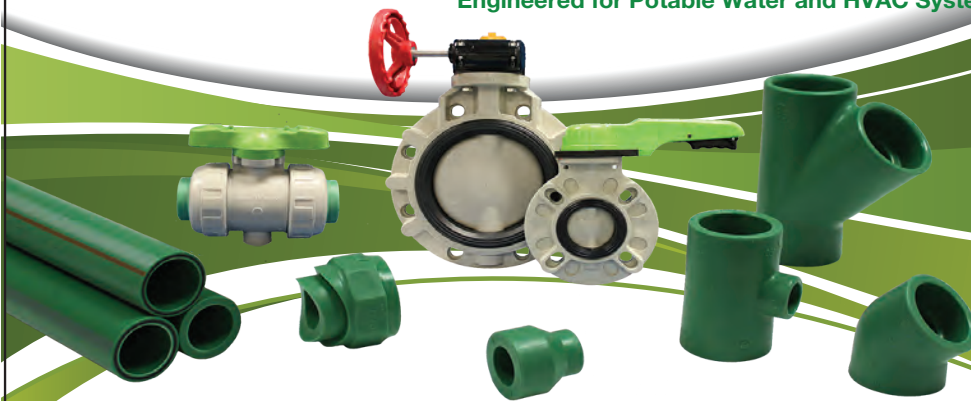
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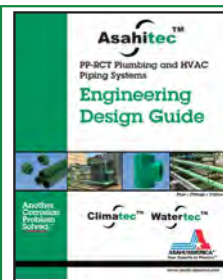
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When: Saturday, April 15, 2023

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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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 speakers for the evening, Peter Kraut, principal at Southcoast Engineering Group (SCEG) and Erin McConahey, principal at Arup.

Our speakers gave all in attendance the current scoop on the electrification of CA, also referred to as "decarbonization", and how it's going to continue heading in this direction so we know what to look forward to.

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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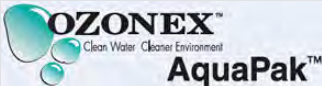
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Meet Marla Shives

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

Happy holidays to all ASPE members and future ASPE members.

As we close out the year, I wanted to thank every single one of you for your continued support of our local chapter.

It is your participation with both our chapter meetings and activities that allow our chapter to thrive. As we head towards the New Year, please enjoy the time with your family and friends!

If you'd like to give the gift of membership, please use the following URL: <https://www.aspe.org/membership-global-community/join/application/> to sign up.



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PRESIDENT: continued from page 1

editor Jeff always attends ASHRAE meetings. We met with ASHRAE Society President Farooq Mehboob, Southern California Chapter current President Sierra Spitulski and President-elect Elyse Johnson. We coordinated the February 7, 2023, ASHRAE Southern California Chapter and ASPE Los Angeles Chapter joint meeting. ASPE members will get the same meeting fee as ASHRAE members. Also, the joint meeting presenter is Bob Woods, and the topic will be “Electric Water Heaters/ Dedicated Heat Recovery Chiller Technology for Electrification”. We need our ASPE members to join that meeting and represent our ASPE.

Our next golf tournament will be tentatively on June 9, 2023, due to some activity in May at Rose Bowl. Still our Golf Committee Chair Bill Siler is not 100% nailed down the date. We’ll let all know ahead.

The Medical Gas Workshop registration is open and will be held on February 23-26 in Irvine, California. If you are interested, please register as soon as possible and it will sell out quickly. The workshop is 32 hours, and it will fulfill the ASSE 6060, Medical Gas Systems Designer professional certification. The cost of the

workshop is \$2000 for ASPE members.

The 2023 ASPE Tech Symposium, to be held September 28 – October 1, 2023, in Bellevue, Washington (outside of Seattle), will be the premier professional development event for plumbing engineers and designers to learn new skills, advance their careers, and improve productivity for their companies and clients. 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.

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.

Please take care of yourselves and each other. Stay Safe.




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VP TECH: continued from page 5

ASPE's popular MedGas Workshop is coming to the West Coast in 2023: It will be held in Irvine, California on February 23–26. Registration is now open. Please visit ASPE.org if interested. ASPE's MedGas Workshop is perfect for anyone seeking to sit for the ASSE 6060 personal certification exam. The ASSE 6060 certification will potentially be a requirement for medical gas system designers in future editions of NFPA 99.

ASPE is now taking applications for the 2023 Alfred Steele Scholarship, which is named in honor of Alfred Steele, PE, a long-time member of ASPE and a visionary and pioneer in advocating education and professional development for plumbing engineers and designers. Up to \$5,000 in scholarship money may be awarded to qualified applicants. To be eligible, you must be an ASPE member or the spouse or child of an ASPE member, have a GPA of 3.0 or higher, and be in or plan to attend an engineering program full-time at a college, university, or technical school. Be well, stay well.



Commercial Water


David Kelly
 Specification Specialist Commercial
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WHO Showed up?
 Attendance for the **December 2022** Meeting...

The total number in attendance was

48!
 plus our speakers!



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PROJECT BACKGROUND

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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



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CLASS	DAYS	START	END
Revit Architecture	M W (5:30- 9:30 pm.)	1/25/23	4/19/23
MEETING DATES: *January- 25, 30 *February- 1, 6, 8, 13, 15, 20, 22, 27 *March- 1, 6, 8, 13, 15, 20, 22, 27, 29 *April- 3, 5, 10, 12, 17, 19			
Revit MEP	M W (5:30- 9:30 pm.)	1/25/23	4/19/23
MEETING DATES: *January- 25, 30 *February- 1, 6, 8, 13, 15, 20, 22, 27 *March- 1, 6, 8, 13, 15, 20, 22, 27, 29 *April- 3, 5, 10, 12, 17, 19			
Revit Architecture	T TH (5:30- 9:30 pm.)	1/26/23	4/20/23
MEETING DATES: *January- 26, 31 *February- 2, 7, 9, 14, 16, 21, 23, 28 *March- 2, 7, 9, 14, 16, 21, 23, 28, 30 *April- 4, 16, 11, 13, 18, 20			
Revit MEP	T TH (5:30- 9:30 pm.)	1/26/23	4/20/23
MEETING DATES: *January- 26, 31 *February- 2, 7, 9, 14, 16, 21, 23, 28 *March- 2, 7, 9, 14, 16, 21, 23, 28, 30 *April- 4, 16, 11, 13, 18, 20			
Civil 3D	T TH (5:30- 9:30 pm.)	1/26/23	4/20/23
MEETING DATES: *January- 26, 31 *February- 2, 7, 9, 14, 16, 21, 23, 28 *March- 2, 7, 9, 14, 16, 21, 23, 28, 30 *April- 4, 16, 11, 13, 18, 20			
Bluebeam	T TH (5:30- 8:30 pm.)	1/26/23	4/4/23
MEETING DATES: *January- 26, 31 *February- 2, 7, 9, 14, 16, 21, 23, 28 *March- 2, 7, 9, 14, 16, 21, 23, 28, 30 *April- 4			
AutoCAD	Friday (5:30-8:30 pm) Saturday (8 am-1pm)	1/27/23	4/21/23
MEETING DATES: *January-27, 28 *February- 3, 4, 10, 11, 17, 18, 24, 25 *March- 3, 4, 10, 11, 17, 18, 24, 25, 31 *April- 1, 7, 8, 14, 15, 21			
Revit Architecture	Friday (5:30-8:30 pm) Saturday (8 am- 1pm)	1/27/23	4/21/23
MEETING DATES: *January-27, 28 *February-3, 4, 10, 11, 17, 18, 24, 25 *March-3, 4, 10, 11, 17, 18, 24, 25, 31 *April-1, 7, 8, 14, 15, 21			

For Enrollment, please contact BARRY barry@ach.edu OR barry@westech.edu OR call 949-393-8866, www.ach.edu click on State-Funded Training Program