

ASPELA TIMES

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

www.aspela.com

July 2024

Volume 24 Issue VII

PRESIDENT'S REPORT Vahan Margaryan CPD, GPD President



We had an excellent presentation by Dr. Saum Nour at our August meeting, which sparked exceptional interest. Over fifty people attended, representing both the Los Angeles and Orange County chapters. As expected, Dr. Saum's presentation skills were remarkable—the entire audience was entertained and engaged in his highly interactive discussion. On behalf of the LA Chapter BOD, I would like to extend our sincere thanks to Dr. Saum Nour for his outstanding presentation.

One takeaway from this event was the importance of RSVPs—we had only 37 confirmed RSVPs, and the room was set up to accommodate 45 people. Fortunately, the event staff provided exceptional service by adding extra chairs and ensuring everyone had a meal. Please remember to click the RSVP button in the email invite and register in advance, as this helps us to be prepared and start the meeting on time.

The 2024 ASPE LA Family Picnic is just around the corner. It will be held on Sunday, September 22, at Robert E. Gross Park, located at 2800 Empire Ave, Burbank, CA 91504. Please see the picnic flyer for

please continue reading on page 27

Starting from June, we are moving our monthly meeting from the first Wednesday of the month to the second Wednesday of the month.

September Meeting

Date: September 11th, 2024

Time: Check-in will start at 5:30pm. Presentation to begin at 7:00 pm (see p. 2)

Place: **Courtyard Marriott**
2100 Empire Avenue
Burbank CA 91504

Program: "Maximizing Water Efficiency for Sustainable Restroom Design"

Speaker: Mr. John Laur, Director of Sales - Western Region, Sloan

Tabletop: Adam Haussman, Design & Specification Account Manager, Delco Sales

See inside for Details...



Calendar Events:

- September 22 - ASPE LA Family Picnic
- October 9 - ASPE LA 60th Anniversary Gala
- October 17 thru 23 - 2024 ASPE Convention and Expo

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AMERICAN SOCIETY OF PLUMBING ENGINEERS LOS ANGELES CHAPTER

September 11, 2024, Meeting
“Maximizing Water Efficiency for Sustainable Restroom Design”
By Mr. John Lauer
Director of Sales – Western Region
SLOAN

WHAT YOU WILL LEARN:

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

- Articulate facts about water and water use in the U.S.
- Understand the movement toward “Green Building” and programs that outline ways to conserve water.
- Identify specific sustainable design restroom applications – including performance testing information.
- Understand differences between LEED 2009, LEED v4 and 4.1.
- Explain what to look for when choosing water saving products.

MEETING LOCATION:

In Person:

[COURTYARD BY MARRIOTT BURBANK](#)
[2100 W EMPIRE AVE, BURBANK, CALIFORNIA 91504](#)

MEETING SCHEDULE:

5:30 pm – Check in.

6:30 pm – 7:30 pm – Presentation

COST: Pay at door only

Meeting Fee:

RSVP - \$55 and Retired BOD: \$30

Without RSVP - \$60

RSVP Online:

[RSVP](#)

By: September 9, 2024

THE SPEAKER:

John Lauer
Director of Sales – Western Region
Sloan

Adam Haussman
Design & Specification Account Manager
Delco Sales
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If you have additional questions or needed information on his presentation, you can reach John at John.Lauer@sloan.com or Adam Haussman with Delco Sales at ahaussman@delcosales.com

For more information, visit our website [@www.aspela.com](http://www.aspela.com).

Heat Pump Water Heaters Symposium

ASPE OC. 10/1/2024. 2726 S Grand Ave, Santa Ana

Heat Pump Water Heater, Water Heaters, and Piping & Controls Product Show

Registration and Product Show: 8:00 am-4:00PM, Holiday Inn

Water Heater, Controls, Piping Manufacturers: A.O. Smith. Bradford White. Nyle. Lochinvar. Stiebel Eltron.

75 seats @\$30.00 for Engineers. City Officials are free. Must Reserve.



Dr. Saum Nour, PE, ASPE
(Moderator)



Shawn Oram, PE Seattle



Eric Decker, PE OC, Ca



Chris Ebener, PE Illinois

8:00 am: Product Show and Registration and Light Breakfast, Lots of Raffles.

9:00 am: Saum Nour- Basic Theory- Water Heater/Heat Pump Water Heater/Efficiency

9:50 am: Intermission /Product Show

10:10 am: Shawn Oram-Seattle, Washington Pioneer in Heat Pump Water Heater-Founder of Ecotope Concept, 100+ HPWH Jobs

11:45 am: Product Show- Tables set for Engineers to communicate with Engineers and plumbers

1:00 pm: Eric Decker- Dawson Co. Sizing Comparison for Heat Pump Water Heaters, piping, Controls,

2:15 pm: Intermission /Product Show

2:30 pm: Chris Nyle, Batavia, Illinois. Commissioning, testing, verification of completed projects

3:45 pm: Product Show Final Raffles

Presenters:

Saum K. Nour, PE, Ph.D., ASPE Fellow- Basics to reality of Heat Pump Water Heaters (Moderator)



PE Mechanical, PE Electrical, PE Civil in near 30 states. BS Mechanical Engineering, BS, MS, Ph.D. Nuclear Engineering. 2022 PM Magazine Engineer of the Year. Blog at www.Greenerade.com. LinkedIn promoter of engineering. 37 years President of Absolute Consulting Engineers. Lectures at AIA, ICC, IAPMO, ASPE.

Sean Oram, PE. Founder of Ecotope Concept. One of the Original Engineers in the HP Water Heater.



Shawn Oram leads business development for Ecotope's design and engineering team. Since 2002, his work at Ecotope has been focused on energy efficiency and its relationship to building systems design. He has a deep knowledge of buildings, systems and energy use gained through field studies, research, energy audits, code compliance analysis, energy modeling, commissioning, and design of HVAC and plumbing systems.

Shawn has spent half of his career working on market transformation of central heat pump water heating with 100+ central HPWH systems designed to date and has assisted in the creation of guidelines for the Design for Off TM approach to creating low energy buildings. Shawn specializes in transforming existing building into high performance buildings and has won several national technology awards for this work. His specialty is in resource efficient HVAC and plumbing systems for a diverse array of commercial buildings that are constructed under California, Oregon, Washington and Alaska state building codes. Shawn ensures that our team of highly specialized engineers deliver the most cost effective and energy efficient buildings while meeting clients' budget, project and timeline goals.

Erick Decker, PE. Best comparison of water heater sizing methods with Heat Pump Water Heaters

Eric Decker, P.E., CPD, 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, Illinois in the Commercial Pumps Marketing Department. In 2011, he joined Dawson Company's Business Development Group, calling on mechanical and plumbing consulting engineers in the Orange County area. In 2017, Eric became Manager of the department.

Eric recently presented at the 2023 ASPE Symposium in Bellevue, WA on this topic. He has presented at Los Angeles, Orange County, and San Diego ASPE Chapter meetings. He has also presented at Orange Empire, San Diego, SoCal, and Tri-County ASHRAE Chapter meetings. Eric is a Registered Professional Mechanical Engineer (P.E.) as well as Certified in Plumbing Design (CPD). He is a Past President of the Orange Empire ASHRAE Chapter.

Chris Ebener, PE. Construction Process, completion, and Commissioning Process

Chris Ebener has spent the last 12 years providing engineered solutions for domestic hot water systems in large built environments spanning higher education, healthcare, and commercial high-rise buildings. Prior to that he spent 10 years working on high performance residential buildings and the deployment of solar, wind, and battery backup systems in rural Midwest communities.



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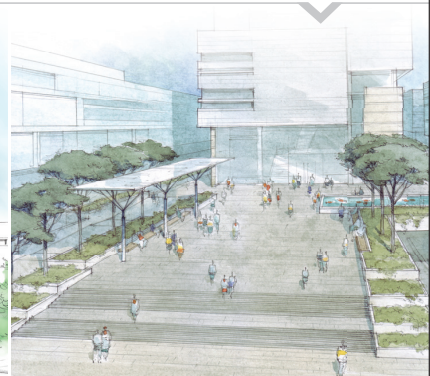
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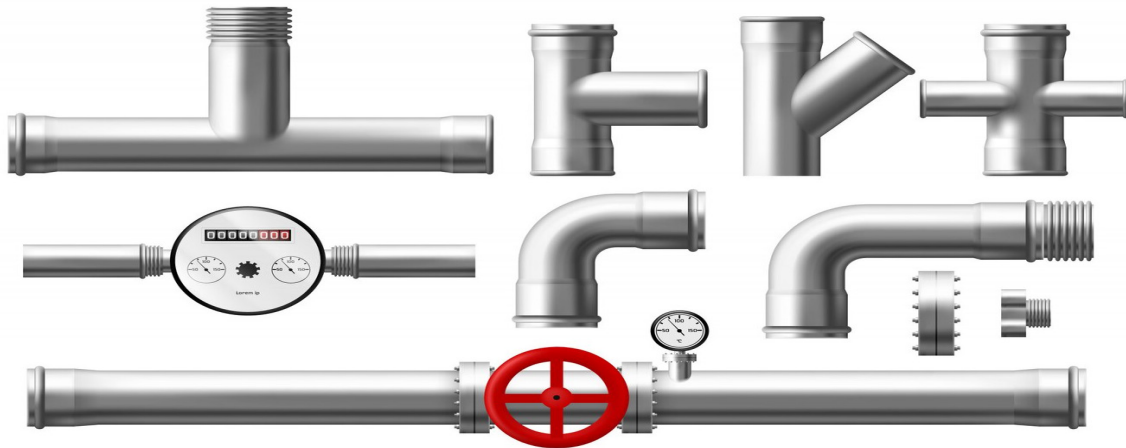


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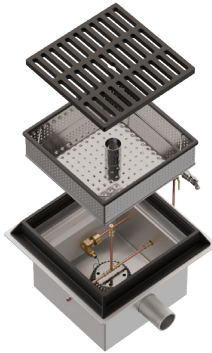
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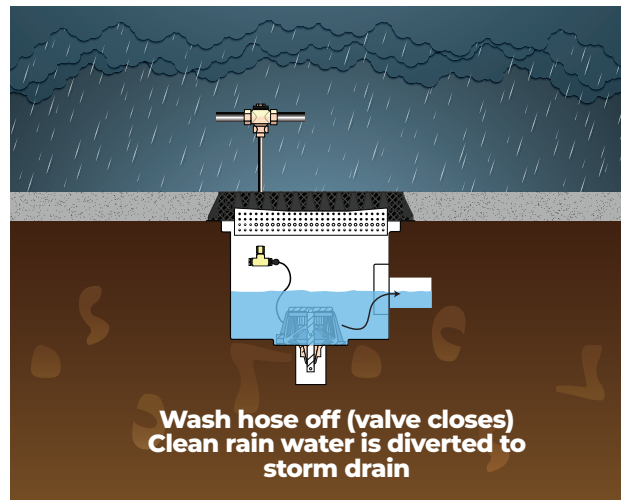
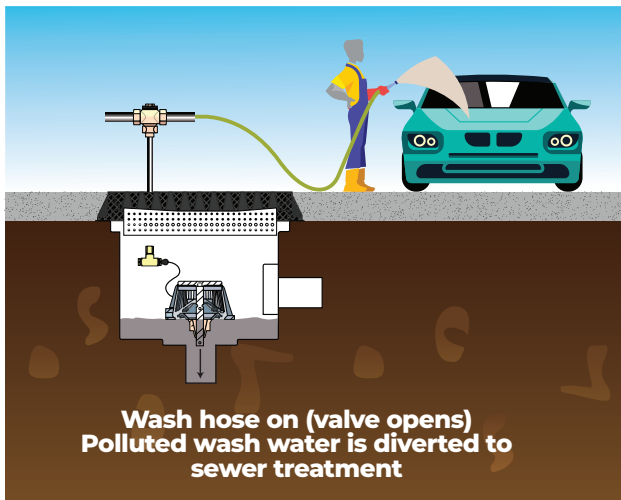


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TECHNICAL REPORT

Thura Zin CPD, GPD

V.P. Technical

The ASPE-LA monthly meeting was held on August 14, 2024, at the Courtyard in Burbank. On behalf of the ASPE-LA Board of Directors, we would like to extend our gratitude to Dr. Saum Nour, President and Founder of Absolute Consulting Engineers, for his excellent presentation on "The Fallacies and Hidden Mysteries of Heat Pump Water Heaters." If you would like a copy of his presentation or the reference materials, please contact Dr. Saum directly.

Last month's meeting had 50 attendees. Despite the website transition to StarChapter, more than 30 people RSVP'd—thank you for that! If you're unable to RSVP online, please feel free to email or text us. Remember, our chapter's monthly meetings have moved to the second Wednesday of the month.

This month's meeting will be on September 11, 2024, and will feature a presentation by John Lauer, Director of Sales – Western Region, Sloan.

He will present "Maximizing Water Efficiency for Sustainable Restroom Design," where he will share detailed insights on water usage in the US, green building practices, water conservation programs, and more. Delco Sales will also have a tabletop display.

Please note, we will not have a regular chapter meeting in October. Instead, we will celebrate the Los Angeles Chapter's 60th Anniversary Gala at the Taglyan Complex, 1201 Vine Street, Los Angeles, CA 90038, on October 9, 2024. For more details, refer to the President's report.

We hope you are already preparing for the 2024 ASPE Convention and Expo in Columbus, Ohio. If you are planning to attend, please let us know. LA Chapter members may meet on Monday, October 21st. We are proud to announce that we have 10 delegates representing our chapter at the Convention.

As always, please don't hesitate to email any board member with topics you'd like to see covered in our technical programs. Keep an eye on your inbox for the next meeting date, and check our Technical

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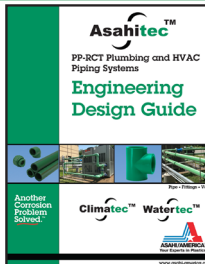


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VP LEGISLATIVE REPORT

Amir Tabakj

V.P. Legislative

Los Angeles, CA (October 17, 2023) — The Los Angeles Department of Water and Power (LADWP) has launched two new programs designed to help residential customers better understand and manage their home electricity and water use 24/7: My Water Insights and Energy Advisor.

“We’re excited to offer these online, interactive tools to our customers, allowing them to track their water and energy use throughout their billing cycle so they can make adjustments to reduce usage and manage their bills,” said Martin Adams, LADWP General Manager and Chief Engineer.

My Water Insights was first piloted in 2015 with a small group of residential customers and is now available to all single-family residential customers free of charge. Through bi-monthly home water reports and a user-friendly online portal, customers can better understand their water usage, learn about

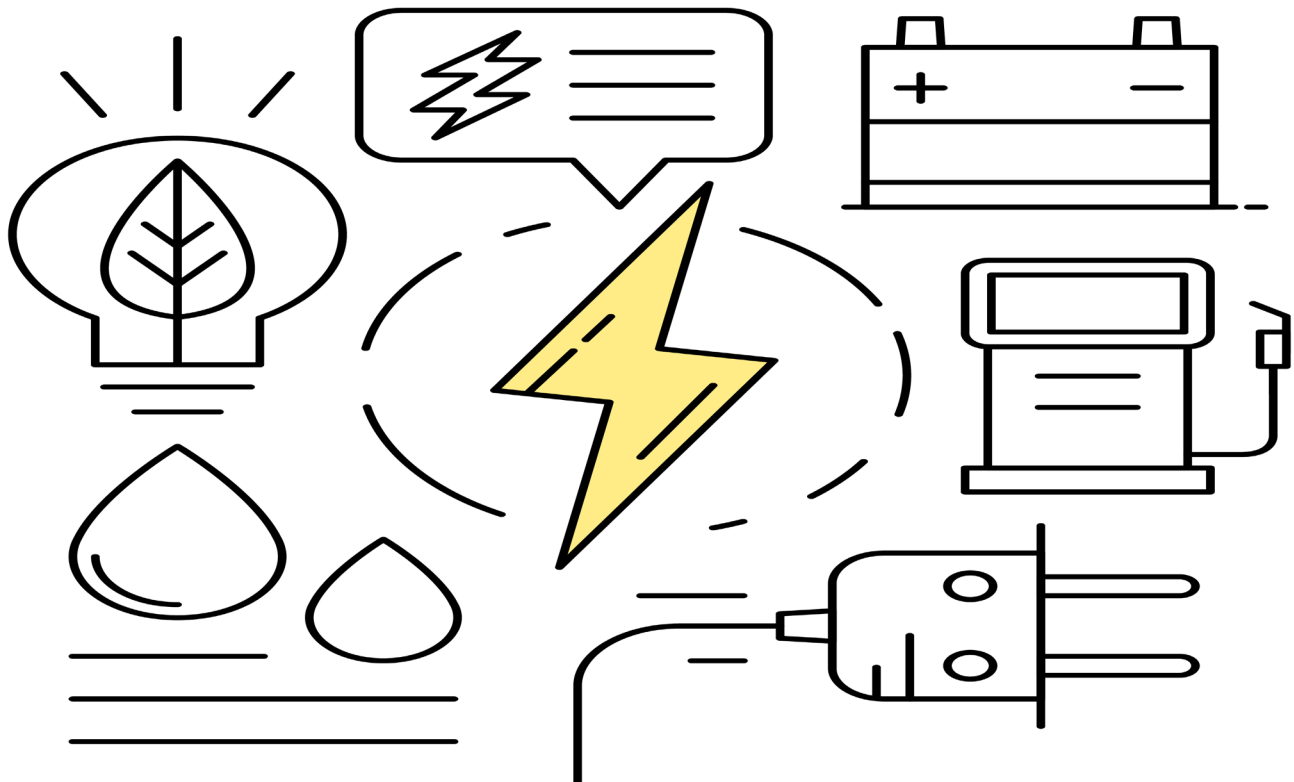
money-saving rebates, and receive a personalized plan based on their household characteristics and water use trends. Enrollment in the program is automatic, with the option to opt out of receiving the reports.

The convenient online portal enables customers to optimize their water use by viewing their current and historical water usage, setting up leak alerts, receiving personalized water-saving recommendations and rebate information, linking to the bill payment site, and more.

Customers will receive a bi-monthly home water report comparing their water usage to that of similar households. Each report will inform customers whether their water use was Efficient, Average, or Above Average for the previous billing period. Additionally, customers will receive a WaterScore ranking, reflecting their overall water efficiency.

The Energy Advisor tool provides an overview of the customer’s energy habits and offers a comprehensive report on how they can reduce energy consumption.

continued on page 17



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Online Training

Live Instructor (Virtual) / Interactive

Location: Online

Class: Revit (MEP)

Day: Monday & Wednesday

Time: 5:30 pm - 9:30 pm

Meeting Dates: *August- 26, 28 *September- 4, 9, 11, 16, 18, 23, 25, 30 *October- 2, 7, 9, 14, 16, 21, 23, 28, 30 *November- 4, 6, 11, 13, 18, 20



Location: Online

Class: Enhanced Revit

Day: Tuesday & Thursday

Time: 5:30 pm - 9:30 pm

Meeting Dates: *August- 27, 29 *September- 3, 5, 10, 12, 17, 19, 24, 26 *October- 1, 3, 8, 10, 15, 17, 22, 24, 29 *November- 5, 7, 12, 14, 19, 21

Location: Online

Class: Revit Architecture

Day: Tuesday & Thursday

Time: 5:30 pm - 9:30 pm

Meeting Dates: *August- 27, 29 *September- 3, 5, 10, 12, 17, 19, 24, 26 *October- 1, 3, 8, 10, 15, 17, 22, 24, 29 *November- 5, 7, 12, 14, 19, 21

Location: Online

Class: Civil 3D

Day: Tuesday & Thursday

Time: 5:30 pm - 9:30 pm

Meeting Dates: *August- 27, 29 *September- 3, 5, 10, 12, 17, 19 *October- 22, 24, 29 *November- 5, 7, 12, 14, 19, 21, 26 *December- 3, 5, 10, 12, 17, 19

Location: Online

Class: BlueBean

Day: Tuesday & Thursday

Time: 5:30 pm - 8:30 pm

Meeting Dates: *August- 27, 29 *September- 3, 5, 10, 12, 17, 19, 24, 26 *October- 1, 3, 8, 10, 15, 17, 22, 24, 29 *November- 5

Location: Online

Class: Revit (Structure)

Day/Time: Friday (5:30-9:30 pm) Saturday (8 am-12 pm)

Meeting Dates: *August- 30, 31 *September- 6, 7, 13, 14, 20, 21, 27, 28 *October- 4, 5, 11, 12, 18, 19, 25, 26 *November- 1, 2, 8, 9, 15, 16, 22

Location: Online

Class: AutoCAD

Day/Time: Friday (5:30-9:30 pm) Saturday (8 am-12 pm)

Meeting Dates: *August- 30, 31 *September- 6, 7, 13, 14 *October- 18, 19, 25, 26 *November- 1, 2, 8, 9, 15, 16, 22, 23 *December- 6, 7, 13, 14, 20, 21

**Schedule is subject to change



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ASPE LOS ANGELES PRESENTS...

ANNUAL

PICNIC

The word 'PICNIC' is written in large, bold, yellow letters with a black outline. Inside the letters, there are black silhouettes of people engaged in various picnic activities: a person holding a picnic basket, a person sitting on a bench, a person standing next to a picnic table, a person standing next to a person sitting on a bench, a person standing next to a person sitting on a bench, a person standing next to a person sitting on a bench, and a person standing next to a person sitting on a bench.

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9/22/2024

11:30 am - 4pm

Robert E. Gross Park

2800 Empire Ave, Burbank, CA 91504

MORE INFO/RSVP:

vpotech.aspela@gmail.com



Limited parking is available inside the park. There are plenty of street parking on Empire Ave.

VP Legislative: continued from page 12

The tool includes a home energy calculator, bill analysis, energy forecasting, rebate recommendations, and savings tips.

Customers are prompted to answer short questions about their household energy use, such as home size, thermostat settings, cooling and heating units, appliances, and other household details. Based on these responses, the tool generates customized recommendations to help conserve energy and save on bills.

For more information, visit ladwp.com/MyWaterInsights and ladwp.com/EnergyAdvisor.



Jeff Atlas

Territory Sales Manager

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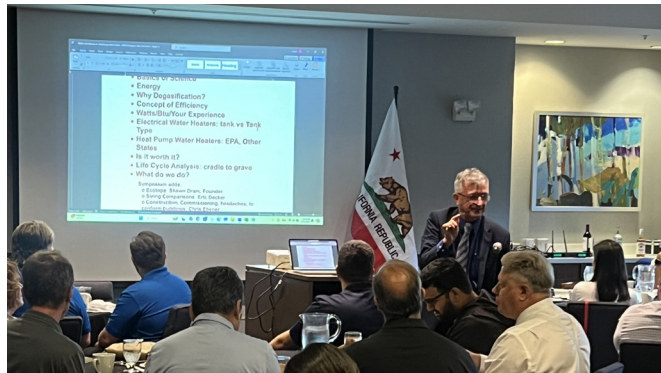
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VP Tech: continued from page 9

Calendar for upcoming technical sessions. We look forward to seeing you all at the next meeting!

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



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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 Seccombe
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,

Hanks Ninh
Hanks Ninh, Project Engineer

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



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LADWP AWARDED FEDERAL FUNDING AIMED AT SUPPORTING LOCAL WATER SUPPLY PROJECTS

LOS ANGELES (May 29, 2024) – The Los Angeles Department of Water and Power (LADWP), the nation’s largest municipal water and electric utility, was among three recipients to receive federal funding from the Bureau of Reclamation to advance sustainable water projects across Southern California. LADWP was awarded \$30 million, for the Los Angeles Groundwater Replenishment (LAGWR) Project; one of multiple projects expected to dramatically reduce the City of Los Angeles’ dependence on purchased, imported water.

The announcement was made at a press conference held at the Metropolitan Water District of Southern California’s (MWD) Grace F. Napolitano Pure Water Southern California Innovation Center in Carson. LADWP’s Chief Executive Officer & Chief Engineer, Janisse Quiñones was joined by Commissioner Touton of the Bureau of Reclamation, United States Senator Alex Padilla, U.S. Representatives Grace Napolitano and Nanette Barragan, State and local water officials, MWD, and other water agencies that were also awarded federal funds.

The recently announced funding is from the Bureau of Reclamation’s Large-Scale Water Recycling Program, which will provide \$450 million over the next five years to large water recycling projects in the Western region. Large-scale recycled water projects will play an important role in establishing a new, local drought-resilient water supply helping to preserve this precious resource amid water scarcity.

“We are grateful that LADWP was chosen as one of the recipients of this grant, as it will be crucial in helping advance our continued mission to ensure all of our customers have equal access to clean, reliable water,” said LADWP’s CEO & Chief Engineer, Janisse Quiñones. “Securing this grant is a significant milestone and it wouldn’t have been possible without the support from our federal, state and local partners. Our shared commitment for a resilient and sustainable water future is unwavering, and today demonstrates that collaborative spirit.”

In partnership with the Los Angeles Department of Public Works, Bureau of Sanitation and Environment (LASAN), this \$750 million project will recycle 100 percent of available wastewater

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Left to Right: Joe Schroeder, Mayor of the City of Ventura; E. Joaquin Esquivel, Chair of the California State Water Resources Control Board; Adel Hagekhalil, General Manager of the Metropolitan Water District of Southern California; U.S. Representative Grace Napolitano; United States Senator Alex Padilla, Commissioner Camille Calimlim Touton of the Bureau of Reclamation; U.S. Representative Nanette Barragan; Adán Ortega Jr., Chair of the Metropolitan Water District of Southern

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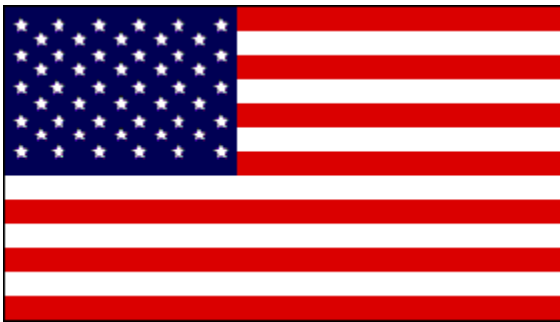
PRESIDENT: continued from page 1

additional details. Entrance is free for our members and their families,

so make an effort to join us for food, drinks, and socializing in a relaxed, informal environment. We look forward to seeing you there!

We are still experiencing difficulties transferring our webpage to the new host. You may have noticed that you are receiving the ASPE LA newsletter from postmaster@mg.starchapter.com. I want to assure you that this is a legitimate communication from ASPE LA. The link within the email will take you to the temporary American Society of Plumbing Engineers Los Angeles - Home Page (starchapter.com). This site is complete but temporary, and its content will eventually migrate to our original ASPELA.com website. We understand and share your confusion and frustration, but we've now involved Arup's IT team to support us with the transition, and we hope to resolve the issue more quickly. We will keep you updated.

The ASPE LA (Founding!) Chapter's Special 60th Anniversary Gala will be held in the heart of



Hollywood on October 9th at the Taglyan Complex, 1219 Vine St, Los Angeles, CA 90038. There will be live entertainment, free parking, plenty of food, and adult beverages. The entrance fee of \$150 will cover both you and your significant other. Special invitations will be sent to our founding members to join us at the event. A flyer and video advertisement with additional details will be distributed soon and will be available on LinkedIn and Facebook—feel free to repost.

If you haven't yet registered for the 2024 ASPE Convention & Expo in Columbus, Ohio, there is still time! While the early registration discount is no longer available, this event provides an opportunity to explore cutting-edge technologies, participate in the country's largest tradeshow, and join professional development sessions. The event will be held from October 18th to the 23rd. If interested, please register at expo.aspe.com.

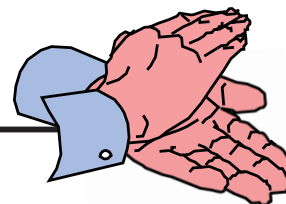
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The B.O.D. is experiencing issues with the websites. The old one is no longer contacting us, so we haven't been able to merge the two. Vahan is working on resolving this, and Gabriel has offered to help as well. The new site is ready—we just need full access.

The family picnic is on September 22, and we're planning to accommodate 60-100 people. RSVPs will be online, similar to how we handle meeting RSVPs.

Matt will send out the picnic flyer, but we're encouraging others to share it on social media to help spread the word.

The 60th Gala is on October 9. We're asking the same favor regarding the flyer—please share it widely. The event is open to everyone, and entertainment will be provided by your favorite rock 'n' roll party band. Maybe we can get Thura to sing again!

Dr. Saum Nour's presentation was a huge success—he captivated the audience with his entertaining and informative style. Thank you, Saum, for filling the room! In

his presentation, Dr. Saum explained why heat pump water heaters might not be the best option for decarbonization. He pointed out that they are not as efficient or environmentally friendly as they're often made out to be. One key issue raised was the fate of the refrigerants as these appliances reach the end of their life cycle. We discussed how, in most cases, refrigerants eventually end up in the atmosphere. We also briefly touched on the concept of "global warming potential" (GWP) numbers assigned to refrigerants. If you believe in the impact of global warming, then the release of refrigerants into the atmosphere certainly contributes to that potential.

It's important that people RSVP for meetings so we can ensure enough food. At this meeting, the hotel staff was nearly overwhelmed by the high turnout for Dr. Saum Nour's lecture.

Dr. Saum also has a Water Heater Symposium coming up on October 1. Tickets are \$30, and there are 75 seats available. You can reach him at snour@absoluteco.com for more details.

See you all at the upcoming events!



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2/2024

LADWP Article: continued from page 25

from LASAN's Donald C. Tillman Water Reclamation Plant (DCTWRP) to produce up to nearly 7 billion gallons per year of purified recycled water for replenishment of the San Fernando Groundwater Basin (SFGB). This will help produce enough drinking water for more than 250,000 residents in the City of Los Angeles annually.

LADWP will provide funds to LASAN for the construction of the recycled water facilities needed at DCTWRP, including an Advanced Water Purification Facility (AWPF) and a state-of-the-art, STEM-focused Learning Center with the intent of educating the public on the safety of purified recycled water and the importance of continued investment in water efficiency projects.

LADWP and LASAN have been collaborating together to develop the LAGWR Project in the San Fernando Valley for several years, conducting pilot testing, performing research of the groundwater basin, and conducting significant outreach to the

community.

LADWP will soon present to its Board of Water and Power Commissioners an overview of the finalized design and a recommendation on next steps for construction and completion of the LAGWR. As one of the largest potable reuse projects in the country, LADWP will continue to work closely with LASAN, the community, and all stakeholders throughout the City to ensure the project's success, bringing us one step closer to a more resilient and sustainable water future.

Grant funds were also awarded to the Metropolitan Water District of Southern California, the City of Ventura and the Washington County Water Conservation District in Utah.



Commissioner Touton, Bureau of Reclamation and LADWP's CEO & Chief Engineer, Janisse Quiñones

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