

ASPELA TIMES

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

www.aspe.com

October 2023

Volume 23 Issue X

PRESIDENT'S REPORT

Thura Zin CPD, GPD

President



September speaker:
Kenyatta Ribeiro
National Specification Manager
OASIS International

I hope this message finds you well. I regret to inform you that I was not able to join the September meeting in person due to my time off and travel plans to Turkey. However, I had full confidence that our VP Technical was capably run the meeting.

First and foremost, I'd like to extend my sincere appreciation to our September meeting's speaker, Kenyatta Ribeiro from OASIS International, for his insightful presentation. It's always valuable to learn from experts in our field.

Looking ahead to our October meeting, we have another exciting speaker lined up – Eric Hough from Sale Leadership, who will discuss Water Stewardship and Business Strategy at Epic Cleantec. I'm sure it will be an enlightening session.

I'd like to take a moment to reflect on our recent Product Show and Technical Seminars event, which exceeded our expectations. While it was a great success, there's always room for improvement. I encourage all our members to provide constructive feedback, both pros and cons, regarding our product shows. This input will be invaluable as we prepare for our next product show scheduled for August 2025.

As we approach next year's ASPE convention, we'll need to select chapter delegates. We will discuss the qualifications and selection procedure for these delegates. Typically, those who attend most of our in-person

please continue reading on page 21

October Meeting

Date: **October 4, 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: Next Generation Water Conservation Technologies

Speaker: Mr. Eric Hough
Chief Commercial Officer
Epic Cleantec

Future events include:

- **ASPE Picnic:** 10-8-23
- **Holiday Party!** TBD
- **Fishing Trip!** TBD

See inside for Details...



inside...

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AMERICAN SOCIETY OF PLUMBING ENGINEERS LOS ANGELES CHAPTER

October 4, 2023, Meeting

“Next Generation Water Conservation Technologies”

By Mr. Eric Hough
Chief Commercial Officer
Epic Cleantec

WHAT YOU WILL LEARN:

Discover how severe drought and aridification is increasingly drawing attention to an often-overlooked topic of building sustainability: water resilience. Attendees will learn about conservation strategies that are altering in response to changing climate conditions, allowing buildings to reduce water and sewer utility demand by as much as 95% and help to achieve LEED certifications.

From greywater and blackwater reuse to full resource recovery, this session will describe the technology landscape, building integration options, long-term operations and maintenance requirements, and regulatory implications associated with the various onsite water reuse strategies.

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: October 1, 2023

THE SPEAKER:



Eric Hough is Chief Commercial Officer at [Epic Cleantec](#) and leads business development and project delivery initiatives out of their Southern California office. With a bachelor’s degree in environmental engineering from The Ohio State University, Eric has 15 years of experience in various water reuse projects, spanning from mega municipal water recycling, wineries & breweries to Living Building Challenge projects for large tech campuses. Eric specializes in the intersection of technology and regulations as it pertains to enabling buildings to become net zero water users.

If you have additional questions or needed information on this presentation, you can reach Eric at: eric@epiccleantec.com.

For more information, visit our website @www.aspela.com.

STATE-FUNDED CADD/BIM TRAINING (3) SCHEDULE (ACH&T)

Online Live Instructor Interactive

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

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.

Leak Detection & Water Submetering Solutions



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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TECHNICAL REPORT

Vahan Margaryan CPD, GPD
V.P. Technical

On behalf of the ASPE LA Chapter Board I would like to thank our September meeting speaker Mr Kenyatta Ribeiro. He conducted a great presentation and explained, very well, the challenges associated with potable water filtration and Code requirements - Thanks Kenyatta.

I would like to also remind our fellow members to RSVP if planning to join ASPE LA monthly meetings – anticipated participants headcount must be forwarded to the venue day before of our meetings, so they have enough time to acquire and prepare food for participants. Even though we are usually rounding-up, the previous meeting we had 11 non-RSVPed participants. This directly affected a portion of our board members which ended up giving up their meal for fellow members. Also, to motivate you to RSVP, a \$5 discount will be applied to your meeting fees if you RSVP online. Please reach out to Thura or I if you need guidance on steps for online RSVP.

The Summer picnic is scheduled for October 8th, 2023. It will be held at Elysian Park in Old Lodge Picnic Area. Please refer to picnic flyer for location, direction, and additional

information. Get your family, friends, kids and come out to enjoy great outdoors with your fellow ASPE members. I'm looking forward to seeing many of my colleagues and friends out there soon!

You still have time to register and attend 2023 ASPE Tech Symposium that will be held on September 28 – October 1st in Bellevue, Washington. The 2023 ASPE Tech Symposium and Product Show is a unique chance for you to have one-on-one face time with the manufacturers who make the products you specify.

On October 12, 2023, Steven Dolejsi, P.Eng, and Keith Sanford, PE, CDT, CCPR, will present ASPE's next one-hour webinar, "Firestopping Basics for Combustible Pipes," at 1 p.m. CDT. This webinar will explain key firestopping considerations for combustible thermoplastic piping systems, covering the common materials found in the industry as well as the different outside diameters, wall thicknesses, burning properties, vented vs. closed piping systems, and codes and standards that affect the type of firestopping needed to ensure that necessary fire ratings are met and building occupants are kept safe. This webinar is free for ASPE members. Visit ASPE Education: Firestopping Basics for Combustible Pipes to register.



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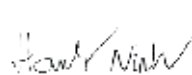



TEST REPORT

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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, 
Hanks Ninh, Project Engineer Sean Vuu, P.E., Manager, Specialty Projects

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

I wanted to share with you an excerpts from HCAI's website, regarding the recent issue of Advisory Guide Series 5, as follows:

The California Department of Health Care Access and Information (HCAI) – Office of Statewide Hospital Planning and development (OSHPD) has prepared Advisory Guide Series – A5, NPC-5 Water Rationing Plan for Hospital Facilities, dated August 2023. This Advisory Guide addresses the frequently asked questions to HCAI/OSHPD and the California Department of Public Health (CDPH) as they relate to General Acute Care Hospital Facilities, or OSHPD 1 Buildings, in Nonstructural Performance Category 5 (NPC-5).

Title 24 California Building Standards Code and Title 22 California Code of Regulations are specifically applied.

Please note that this Advisory Guide is to be used for reference only. Although it presents code information regarding key elements, this Advisory Guide shall not be considered a complete representation of all requirements. It is still the responsibility of the design professionals in charge to comply with applicable laws, regulations, and codes, in accordance with California Administrative Code, Section 7-115. For a copy of this Advisory Guide please consult HCAI website.

Some of the highlights in the report is the 'Background' on how this requirement came about, see below:

The 2022 California Plumbing Code, Section 615.4 states that "The emergency water storage capacity shall be computed based on an approved Water Conservation/Water Rationing Plan to provide for 72 hours of operation, accepted by the licensing agency."

This Advisory Guide does not provide a comprehensive list, it only outlines commonly asked information by the Department of Health Care Access and Information (HCAI) Office of Statewide Hospital Planning and Development (OSHPD), also referred to as "the Office", and the California Department of Public Health (CDPH). Additional information should be provided to reflect building specific information where necessary.

Nonstructural Performance Category 5 (NPC-5) refers to the ability of a hospital facility to support 72 hours of emergency operations. The 2022 California Plumbing Code has exceptions (see Sections 615.4 and 727.0) that allow much smaller holding tanks where alternate arrangements have been made for delivery of water or transportable means for sewage and liquid waste disposal. Where such exceptions are used, the arrangements require approval by HCAI/OSHPD and CDPH.

The NPC-5 requirement refers to both potable water as well as industrial/process water to operate hospital utilities and equipment to support 72 hours of emergency operations.

For a seismically separate building that has licensed patient beds, a minimum of 150 gallons of potable water per licensed bed shall be provided (2022 California Plumbing Code, Section 615.4) with additional industrial/process water to support 72 hours of emergency operation of the subject building. A new Central Utility Plant

must provide water for 72 hours of emergency operation for itself and any other new buildings but not for the existing buildings on the campus, but nothing prohibits installation of larger tanks at the time of construction. The existing buildings remaining in the acute care inventory on January 1, 2030 will need to comply with the NPC-5 requirements by January 1, 2030.

continued on page 13





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GENERAL MEETING MINUTES

Jeff Atlas

Administrative Secretary... and your newsletter editor

Our September meeting was a huge success. We had more members and guests than we have had in a while.

We began the meeting with the pledge of allegiance. We followed the pledge with self introductions. This is a good way for everyone to know who you are and where you work. The advertising component to this is powerful. Come join us and tell us who you are.

Next on the agenda was calling our sergeant at arms, Mr. Booby Wood of Air Treatment Systems, to the front of the room to issue fines.

Well, it turns out that for the second month in a row, nobody was caught doing anything worthy of a fine... except Bobby himself! So, he fined himself a couple of bucks and humbly sat back down. Thank you Bobby Woods for always being an active part of ASPE in general and the Los Angeles chapter in particular.

The next meeting will take place on October 4, 2023 and we are looking for even more participation as our membership numbers are continuing to swell thanks to the efforts of our esteemed membership chairman, Robert Galaviz of Raypak.

Come join us for the next meeting where we will discuss the finer points of the "Next Generation Water Conservation Technologies".



"Have you tried opening the back and emptying the pencil shavings?"

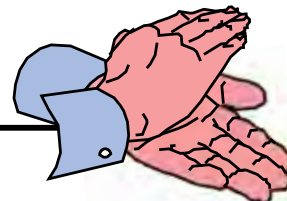
WHO Showed up?

Attendance for the **September 2023** Meeting...

The total number in attendance was

36!

plus our speaker!



Jeff Atlas
 District Sales Manager
 (661) 428-4607 cell
 jeff.atlas@raypak.com

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continued from page 6

The amount of water required is determined from the facility’s emergency operations plan and an associated Water Conservation/Water Rationing Plan to provide for 72 hours of operation. The water conservation/water rationing plan must also be accepted by the California Department of Public Health Licensing and Certification. Whereas there is a minimum volume of potable water per licensed bed, there is no minimum volume for industrial/process water in the California Plumbing Code. This volume is dependent on which utilities and systems the hospital facility intends to operate during an emergency. The Water Conservation/Water Rationing Plan must account for losses in the process water for closed loop heating and cooling systems.

The California Plumbing Code, Section 615.4.2 requires the emergency supply of water be provided with sufficient pressure using gravity, pressure tanks or booster pumps. If booster pumps are provided, they are required to be connected to the emergency power supply

system. California Plumbing Code, Section 615.4.2 applies even when the exception of the California Plumbing Code, Section 615.4.1 is used to ensure that the Advisory Guide Series – A5 NPC-5 Water Rationing Plan for Hospital Facilities | August 2023 Department of Health Care Access and Information 2 emergency supply of water is delivered to the end point of usage at sufficient pressure from the storage tank. The ability to dispense water to portable containers from the storage tank required in the exception of the California Plumbing Code, Section 615.4.1 is to be considered a measure of last resort. 😊

Donald F. Dickerson Associates
— consulting engineers

April K. Trafton
President



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Nobody Ask Me But.. by Kook Dean Past President

ASPELA STEM Program

The purpose of the ASPELA **S**tudent **T**echnology **E**ngineering **M**arketing (STEM) Program:

1. **S**tudent - The source of future engineers\sales for the Chapter's growth.
2. **T**echnology – The creation of products for the movement of water + gases in the commercial, industrial, and residential facilities.
3. **E**ngineering – The design and application of technology for the movement of water + gases in the commercial, industrial, and residential facilities.
4. **M**arketing – Making the public aware of the available technology and its application for use.

The purpose of this program is to recruit the high school students to participate in ASPELA Chapter meetings. This will expose the high school students to the available careers in the commercial, industrial, and residential plumbing systems. The careers include product design, engineering, and marketing. The goals of the **S.T.E.M.** will be achieved by:

1. Presentations at high school career days by retired chapter engineers and sales.
 - a. Have the retired chapter engineers and vendors contact various high schools to schedule career day presentation.
 - b. Arrange after school and Saturday presentations to students, teachers, councilors, and parents to meet and greet engineers/sales. Create an opportunity to sit with engineers/sales and ask questions on a personal basis.
 - c. Modify ASPELA Website to provide the career path for an engineer or sales.
2. Arrange tours of plumbing supply facilities, warehouses, and design offices. The purpose of the tours: To educate the students on the plumbing technology in existing facilities.
3. Provide an opportunity for the retired (chapter) chapter members to support the chapter.

This will create an opportunity for the chapter members to “Ride off into the Sunset” and still support ASPELA.

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MEMBERSHIP REPORT

Robert Galaviz CPD
V.P.Membership

Despite not having received the society reports for the past two months, I wanted to provide you with a brief update.

It was a real pleasure to see so many familiar faces at the recent ASPE LA technical seminar & product show. We truly appreciate the support of all the local members and vendors that participated in the event.

It was noted that several attendees were not currently registered as members of our chapter.

I'd like to encourage those folks to sign up and join our chapter.

If you know anyone that was in attendance, please share the following link to the ASPE application.

<https://www.aspe.org/membership-global-community/join/>



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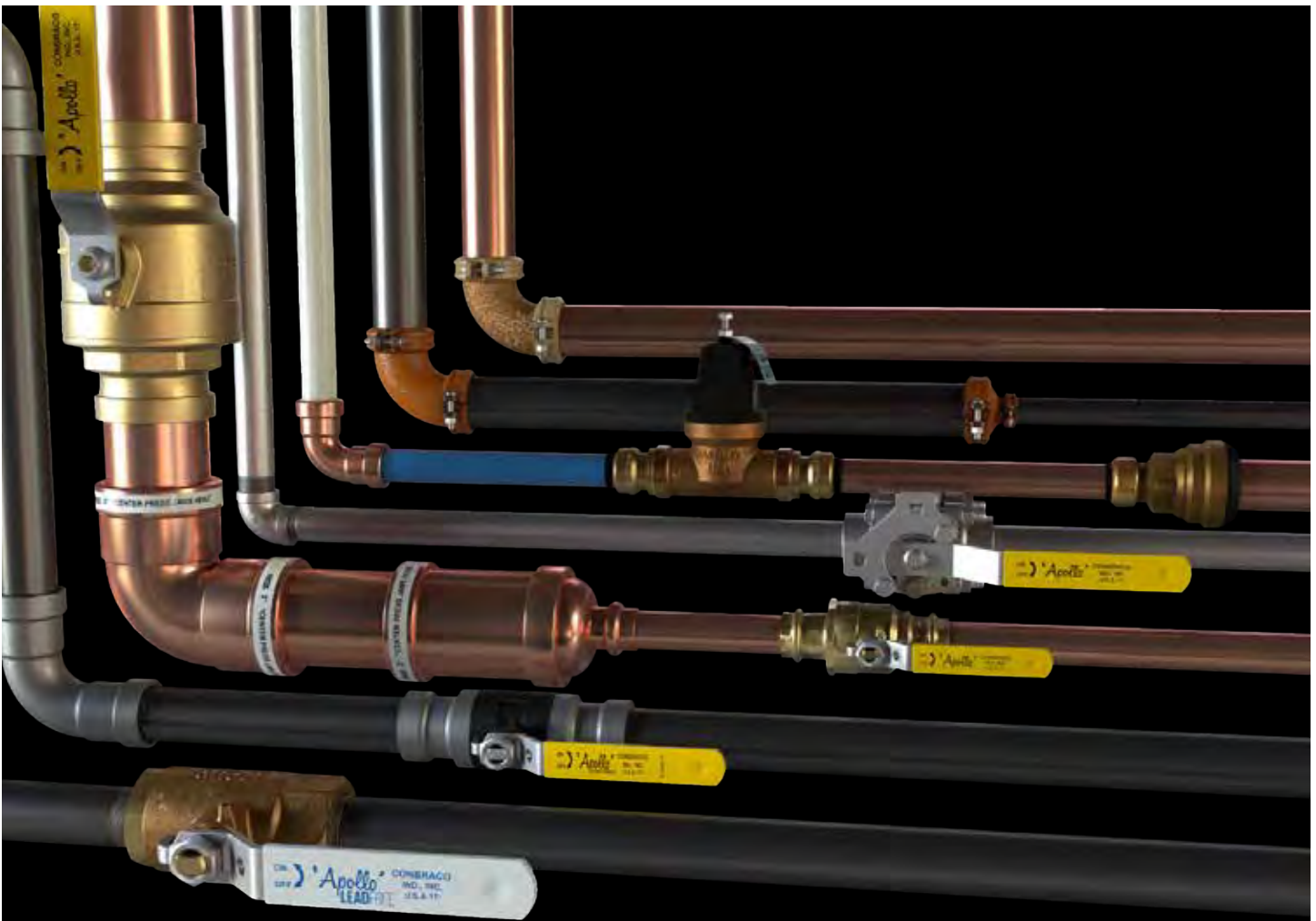


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PRESIDENT: continued from page 1

meetings are eligible for consideration. Per our bylaws, the Chapter President, VP Technical, and VP Legislative will serve as the first three-chapter delegates, with the rest selected from among our chapter members.

I'm pleased to announce that our membership has grown to 140, up from 132 at the end of June. A special thanks goes to our VP Membership, Robert, and Product Show Chair, Vivian, for their efforts in attracting new members. Let's continue to encourage more members to join our vibrant community.

Our next monthly meeting will take place at the Burbank Courtyard, and I want to remind everyone that registration is mandatory via our LA Chapter website, as before. This helps us ensure accurate headcounts for the venue. Please note that we are not currently accepting online payments.

I'm delighted to share details about our chapter's annual family picnic, set for October 8th at the Elysian Park's Old Lodge Picnic Area near Dodger's Stadium. Thanks to Kook's dedication, we've coordinated this event around the Dodger game schedules. Bring your families and friends and let us know what activities you'd like to enjoy on our picnic day. Reach out to Vahan, Kook, or

David for further information.

Another exciting event on the horizon is the "Sporting Clay Event – Joint WOA and AYP event for ASPE – LA Chapter and ASPE OC" on October 15th, 2023. Participation costs \$35 per person, and the event will be held at 2029 Verdugo Blvd, Montrose. For more information, please contact Linda Deunay.

I promise to report back on the highlights of the 2023 ASPE Technical Symposium at our next month's meeting.

Lastly, as we plan for December, we're aiming for an annual dinner meeting, so please save that date. Additionally, if any manufacturer is interested in sponsoring a fishing trip, please reach out and let us know.

As always, your input is valuable to us. If you have any topics or ideas for our technical programs, don't hesitate to contact us or any board member. Keep an eye on your email for the next meeting invite, and I eagerly anticipate seeing all of you at our upcoming events.




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