

ASPELA TIMES

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

www.aspela.com

December 2023

Volume 23 Issue XII

PRESIDENT'S REPORT Thura Zin CPD, GPD President



November speaker:
Mr. Michael Madsen
Lead Sales Engineer
GRUNDFOS CBS Inc

I would like to thank the presenter, Mr. Michael Mason Lead Sales Engineer from Grundfos CBS Inc. for his Pump Basics" presentation. It's always valuable to learn from experts in our field. It's wonderful to hear that you had an insightful presentation from Mike. Learning from experts in the field can be a valuable experience, and it's great that your chapter is able to provide such opportunities to its members.

The upcoming December meeting is exciting as well. Mr. Michael LeMaster, Technical Field Representative at Charlotte Pipe and Foundry Company, will present on " Value Engineering Considerations" and is sure to be informative and beneficial for your members. Learning about value engineered piping can be valuable for those in your industry. I hope your chapter continues to have successful and engaging meetings, and I'm sure your members are looking forward to the upcoming event with Mr. LaMaster.

We want to share the exciting news about the 2024 ASPE Convention and Expo in Columbus, Ohio, scheduled for October 18 through 23. It's a great opportunity for members to enrich their knowledge and network with industry professionals. Save that date.

The American Society of Plumbing Engineers (ASPE) offers two convenient ways to obtain the training required

please continue reading on page 21

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December Meeting

Date: December 6, 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: Value Engineering Considerations

Speaker: Mr. Michael LeMaster
Field Technical Representative
Western Region,
Charlotte Pipe & Foundry

Future events include:

- Holiday Party! 1-27-24
- Fishing Trip! TBD

See inside for Details...





AMERICAN SOCIETY OF PLUMBING ENGINEERS LOS ANGELES CHAPTER

December 6, 2023, Meeting
“Value Engineering Considerations”
By Mr. Michael LeMaster
Field Technical Representative – Western Region,
Charlotte Pipe and Foundry Company

WHAT YOU WILL LEARN:

This presentation defines Value Engineering in construction and details the numerous considerations as they relate to the cost and function of a commercial DWV piping system. Basic material differences with cast iron and PVC DWV systems will be conveyed as well as how they apply to different types of buildings. The different installation methods and requirements will be learned as well as how they relate to the many dynamics of an overall project cost. The participant will gain an understanding of where and when to use each type of product and why.

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: December 4, 2023

THE SPEAKER:



Mike LeMaster is a former high school teacher and has been in the pipe business since 2005. Mike is one of six Field Technical Service Representatives, (FTSR's), for Charlotte Pipe and Foundry. The purpose of this group is to work with engineers, contractors, and code officials offering technical resources to the plumbing community. Mike takes care of seven western states for Charlotte Pipe and Foundry.

If you have additional questions or needed information on his presentation, you can reach him at: mlemaster@charlottepipe.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



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TECHNICAL REPORT

Vahan Margaryan CPD, GPD
V.P. Technical

Let me start my report with special thanks to our speaker of the month, of November, Mike Madsen from Grundfos. Mike is very well respected and well-known pump expert in the region. I've been working with Mike for many years and always have been intrigued by his unorthodox paths to find a solution for unique pumping applications.

Quick updates on a couple of items:

1. ASPE LA Chapter Holiday party will be held at the Bellezza Banquet Hall at 11009 Burbank Blvd #112, North Hollywood, CA 91601 on Saturday, January 27, 2024. Doors will be open at 6:00pm. ASPE LA Chapter BOD has agreed that a single entrance payment will encompass fees for ASPE member and their significant others. Essentially, ASPE LA will cover the fees of members' companions, all within the cost equivalent to that of a single person. At this point, please mark your calendar and look

- out for separate email blasts for additional details and payment options as we are still finalizing valet parking, menu items, and entertainment options.
2. ASPE LA Chapter longtime friend and supporter Amir Tabakh (LADWP) and his team are once again ready to host the May 2024 ASPE LA Chapter meeting at the LADWP La Kretz building. There will be couple of tours throughout the facility. We are expecting to have Christoph Lohr P.E. from IAPMO to present IAPMO's water demand calculator to the wider LA audience at this venue.
3. We are switching our meetings to be held on the second Wednesdays of the month starting in May of 2024. Due to overlapping holidays on the first weeks of a few months which has required us to shuffle around the January, July, and September meetings. To avoid future confusion, BOD decided to permanently maintain the second Wednesday's of the month for ASPE LA meetings.

Save the date - The 2024 CPD exam will be held virtually on April 15-26, so you can take it anytime during that period. The deadline to register is April 1,

continued on page 14

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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
Hanks Ninh, Project Engineer

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

LEGISLATIVE REPORT • Kook Dean, C.I.P.E., CPD (past president) • V.P. Legislative

Propose letter to Los Angeles City Council In Reference To All Electric Buildings.

Listed below is the follow up to my November 2023 Report to the enforcement for a mandatory all electric new building construction. I'm requesting the chapter to support this proposal. The chapter should be a part of the review process to establish codes\regulations\ordinances affecting the design\installation of plumbing systems. This includes metering (gas, water, and electrical).

Propose letter to Los Angeles City Council and Attorney:

To: Hydee Feldstein Soto.
Los Angeles City Attorney

Los Angeles City Attorney Report: R22-2022
Related Council File: 21-1463

Joe Buscaino
Councilmember District 15

Council District
Marqueece Harris-Dawson
Councilmember District 8

Paul Koretz
Councilmember District 5

Mitch O'Farrell
Councilmember District 13

Nithya Raman
Councilmember District 4

Subject: Residential and Commercial Building Construction / Zero-Carbon Emissions / Climate Equity LA Series / Building Decarbonization: Ordinance 187714.

Proposal for the City of Los Angeles Department of Water & Power Electrification Reduce Carbon Foot Print Program (ERCFP). The purpose of this program is to recognize and acknowledge new building construction that are all electric and reduce their carbon foot print. The recommendation is for three (3) levels of electrification Reduce Carbon Foot Print:

1. Platinum – All electric buildings in compliance with the California Energy Commission equipment, construction material, and water use.
2. Gold - All electric buildings in partial compliance with the California Energy Commission equipment, construction material, and water use.
3. Copper – Meets the minimum electrical requirements for all electric buildings.

continued on page 7

continued from page 6

Each all electric building to receive a metal plaque (letter size) mounted at the main entrance stating:

1. Level (Platinum, Gold, or Copper).
2. Year issued (based on the Building Certificate of Occupancy).
3. LADWP Seal.
4. City Council Name and district number.
5. Architect and General Contractor.

The purpose of this program is to encourage architects and general contractors to support the all-electric building construction and be recognized for their efforts. For more information on my skill set; Please visit my LinkedIn account.

Kook Dean
213 280 1691 cell
Kkdean2000gmail.com

Website Address:

<https://cityclerk.lacity.org/lacityclerkconnect/index.cfm?fa=cfi.viewrecord&cfnumber=22-0151>

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Anne Yardley
 ayardley@elmcostewart.com

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 <p>Custom Solutions for Modern Luxury Hospitality and Commercial Restrooms.</p>	 <p>Fire Protection Products.</p>	 <p>Sump, Effluent & Sewage Controls, Engineered Custom Controls, Embedded Controls, Ceramic Filtration Solutions.</p>	 <p>Stainless Steel Surgical Scrub Sinks, Toilets, & Accessories for Health Facilities.</p>



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SCIENCE

The Cooling World

There are ominous signs that the earth's weather patterns have begun to change dramatically and that these changes may portend a drastic decline in food production—with serious political implications for just about every nation on earth. The drop in food output could begin quite soon, perhaps only ten years from now. The regions destined to feel its impact are the great wheat-producing lands of Canada and the U.S.S.R. in the north, along with a number of marginally self-sufficient tropical areas—parts of India, Pakistan, Bangladesh, Indochina and Indonesia—where the growing season is dependent upon the rains brought by the monsoon.

The evidence in support of these predictions has now begun to accumulate so massively that meteorologists are hard-

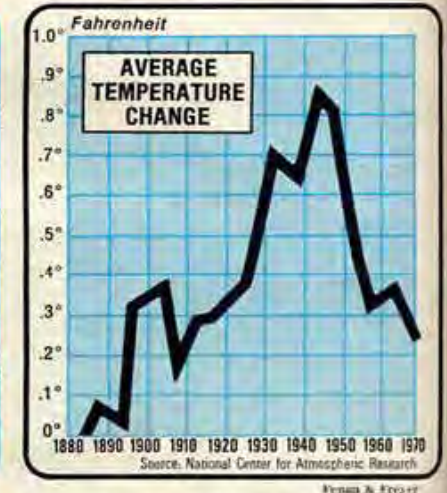
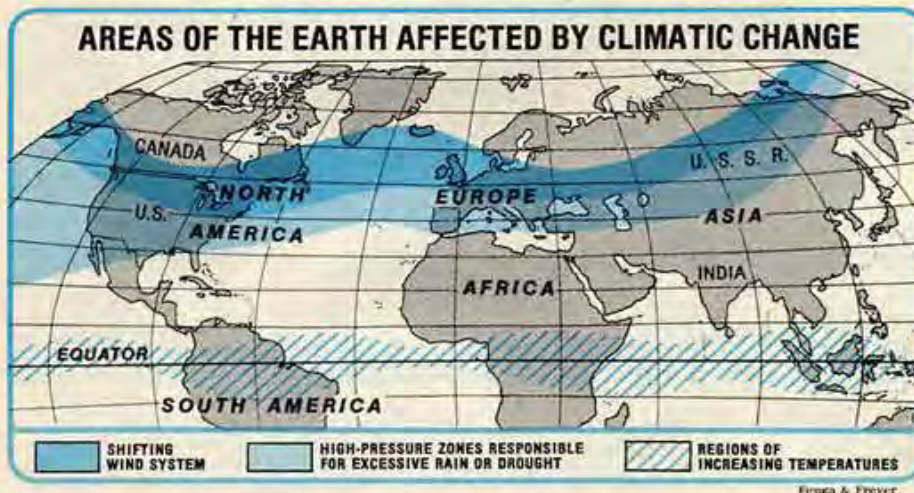
reduce agricultural productivity for the rest of the century. If the climatic change is as profound as some of the pessimists fear, the resulting famines could be catastrophic. "A major climatic change would force economic and social adjustments on a worldwide scale," warns a recent report by the National Academy of Sciences, "because the global patterns of food production and population that have evolved are implicitly dependent on the climate of the present century."

A survey completed last year by Dr. Murray Mitchell of the National Oceanic and Atmospheric Administration reveals a drop of half a degree in average ground temperatures in the Northern Hemisphere between 1945 and 1968. According to George Kukla of Columbia University, satellite photos indicated a sudden, large increase in Northern Hemisphere snow cover in the winter of 1971-72. And

ic change is at least as fragmentary as our data," concedes the National Academy of Sciences report. "Not only are the basic scientific questions largely unanswered, but in many cases we do not yet know enough to pose the key questions."

Extremes: Meteorologists think that they can forecast the short-term results of the return to the norm of the last century. They begin by noting the slight drop in over-all temperature that produces large numbers of pressure centers in the upper atmosphere. These break up the smooth flow of westerly winds over temperate areas. The stagnant air produced in this way causes an increase in extremes of local weather such as droughts, floods, extended dry spells, long freezes, delayed monsoons and even local temperature increases—all of which have a direct impact on food supplies.

"The world's food-producing system," warns Dr. James D. McQuigg of NOAA's Center for Climatic and Environmental Assessment, "is much more sensitive to



pressed to keep up with it. In England, farmers have seen their growing season decline by about two weeks since 1950, with a resultant over-all loss in grain production estimated at up to 100,000 tons annually. During the same time, the average temperature around the equator has risen by a fraction of a degree—a fraction that in some areas can mean drought and desolation. Last April, in the most devastating outbreak of tornadoes ever recorded, 148 twisters killed more than 300 people and caused half a billion dollars' worth of damage in thirteen U.S. states.

Trend: To scientists, these seemingly disparate incidents represent the advance signs of fundamental changes in the world's weather. The central fact is that after three quarters of a century of extraordinarily mild conditions, the earth's climate seems to be cooling down. Meteorologists disagree about the cause and extent of the cooling trend, as well as over its specific impact on local weather conditions. But they are almost unanimous in the view that the trend will

a study released last month by two NOAA scientists notes that the amount of sunshine reaching the ground in the continental U.S. diminished by 1.3 per cent between 1964 and 1972.

To the layman, the relatively small changes in temperature and sunshine can be highly misleading. Reid Bryson of the University of Wisconsin points out that the earth's average temperature during the great Ice Ages was only about 7 degrees lower than during its warmest eras—and that the present decline has taken the planet about a sixth of the way toward the Ice Age average. Others regard the cooling as a reversion to the "little ice age" conditions that brought bitter winters to much of Europe and northern America between 1600 and 1900—years when the Thames used to freeze so solidly that Londoners roasted oxen on the ice and when iceboats sailed the Hudson River almost as far south as New York City.

Just what causes the onset of major and minor ice ages remains a mystery. "Our knowledge of the mechanisms of climat-


the weather variable than it was even five years ago." Furthermore, the growth of world population and creation of new national boundaries make it impossible for starving peoples to migrate from their devastated fields, as they did during past famines.

Climatologists are pessimistic that political leaders will take any positive action to compensate for the climatic change, or even to allay its effects. They concede that some of the more spectacular solutions proposed, such as melting the arctic ice cap by covering it with black soot or diverting arctic rivers, might create problems far greater than those they solve. But the scientists see few signs that government leaders anywhere are even prepared to take the simple measures of stockpiling food or of introducing the variables of climatic uncertainty into economic projections of future food supplies. The longer the planners delay, the more difficult will they find it to cope with climatic change once the results become grim reality.

—PETER GWYNNE with bureau reports


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ADMINISTRATIVE SECRETARY

Jeff Atlas

Administrative Secretary... and your newsletter editor

Please read the VP Legislative report carefully. There are a lot of restrictions, harsh regulations, limits and bans on our way of life coming at rapid fire here in California with next to no opposition.

Will the various jurisdictions, such as Los Angeles, simply plow ahead ignoring court rulings? I guess that will depend on at just what point the inhabitants of this state begin to realize what's happening around them.

Will we be “allowed” to grill burgers at the next ASPE picnic?

Please read the VP Legislative report carefully.

Attendance is way up at the meetings. Please continue to participate. Things don't have to be the way they are.



VP Tech: continued from page 5

2024. The certification program provides the profession, the plumbing industry, and the general public with a single, comprehensive qualification of professional competence for engineers and designers of plumbing systems.

The Society of Fire Protection Engineers (SFPE), the world's leading professional society for fire protection and fire safety engineering, announces the opening of registration for its Principles and Practice of Engineering (PE) Fire Protection Exam Review Course. This course begins November 28, 2023 and runs through April 2024—conveniently scheduled to support candidates preparing for the Fire Protection Engineering PE Exam on April 16, 2024.



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MEMBERSHIP REPORT

Robert Galaviz CPD
V.P. Membership

Please join me in welcoming Jeff Imbriani from Omegaflex as our latest member. We extend our sincere gratitude to Jeff and Omegaflex for their invaluable support, contributing to the strength and growth of our organization.

As we approach the holiday season, I want to take a moment to express warm wishes to all our existing members.

If you haven't renewed your membership, please visit the following link. This is also the link you'd use if you'd like to purchase the gift of an ASPE membership for a friend or colleague! <https://www.aspe.org/membership-global-community/join/>

Wishing you a joyous holiday season and a prosperous New Year!

Best regards,
Robert Galaviz, C.P.D. – V.P. Membership, ASPE Los Angeles robert.galaviz@raypak.com



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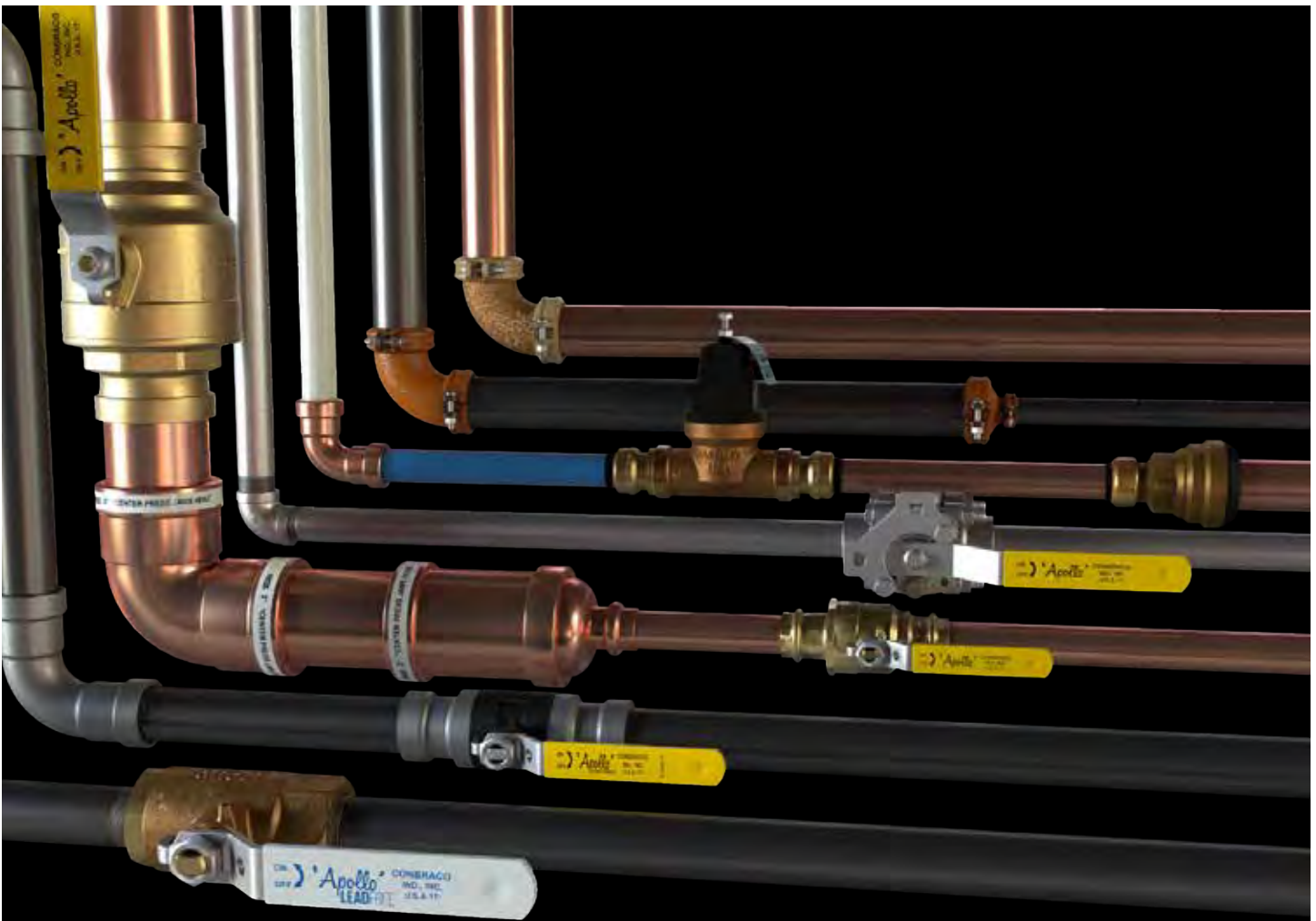


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PRESIDENT: continued from page 1

to sit for the ASSE 6060: Medical Gas Systems Designer professional certification exam: an in-person, instructor-led workshop and a self-paced online workshop. The ASSE 6060 certification has been voted as a requirement for medical gas system designers in future editions of NFPA 99, so it is beneficial to you and your employer to get ahead of the curve now.

We are starting the process for selecting chapter delegates for the convention. Our chapter is prioritizing active involvement and participation in local meetings as an eligibility criterion. The Chapter President, VP Technical, and VP Legislative serve as the first three delegates is a sensible approach. We might need to select a total of 8 delegates and one alternate.

We get more and more registration online every month. I want to thank those who registered monthly meetings online. 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. The increase in attendance, with 37 participants this month compared to last month, is a positive note that adds to the success of the initiative.

The "Sporting Clay Event – Joint WOA and AYP event for ASPE – LA Chapter and ASPE OC" on October 15th, 2023, was very successful. We are planning to do it again next year, again. I would like to thank our chapter WOA Lindar for leading this event.

ASPE – Los Angeles an annual dinner location is set on January 27, 2024, so please save that date. Vahan and I went and looked at the venue and we decided on our dinner at Bellezza Banquet Hall, 11009 Burbank Blvd., North Hollywood. 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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Thank you to all who came out for our recent Women of ASPE AYP Sporting Clays event. Much appreciation goes to our sponsors Delta Commercial with Mega Western and Zurn with Mainline Sales. And all those who helped to make the event a success.



Women of ASPE SPORTING CLAY EVENT



WOA Cares 

Women of ASPE is joining with our sisters of ILWU to support Alexandria House and their residents. Alexandria House has an 92% success rate of residents who complete their program transitioning out of homelessness. This holiday season we are celebrating 4 family's successful transition away from homelessness by providing pajamas, sheets, towels, and slippers for their new residence. If this resonates with you, please join our efforts by helping to provide these items through our Women of ASPE SoCal Alexandria House Amazon Wish List

https://www.amazon.com/registries/guest-view/3VN0N1S4TS6HX?ref=gr_search_page_result

WOA HOLIDAY 2023		Alexandria House Outreach					Sheets	
NAME	GENDER	AGE	FAVORITE COLOR	SHIRT SIZE	PANT SIZE	SLIPPERS	BED-TOWELS	
1 Anastia G	Female	Adult	Black-White	M	M	7	Queen	
2 Aracely H	Female	Adult	Pink	M	S	6.5	Queen	
3 Alejandra H	Female	Adult	Blue-Pink	M	6	7.5	Queen	
4 Emmanuel H	Male	Adult	Blue-Black	M	M	9	Twin	
5 Susanna C	Female	Adult	Green ,Turquoise,	XL	L	8	Queen	
6 Mia A	Female	Adult	Pink -Baby Blue	XXL	XXL	8	TwinXL	
7 Bella A	Female	Adult	Black Purple	XL	XL	8	Queen	
8 Luka A	Male	Adult	Blue Green	38-40	38-40	10.5	TwinXL	
9 Siobhan L	Female	Adult		M	10	8	Queen	
10 Andrew L	Male	Teen	Black	XS	16 Men	8 Men	Queen	
11 Juan L	Male	Teen	Black	16-18Men	16-18Men	11Men	Queen	
12 Chelin L	Female	Teen	Navy Blue	M		12 10Wide	Twin	
13 Nayelie L	Female	Teen	Yellow Green	S-M		5 7.5	Twin	
14 Felicia D	Female	Adult	Red	1X	1X		11 King	
15 Antonio S	Male	6	Light Blue	6-7	6-7		13.5 Twin	
16 Raylyn S	Female	13	Purple	14-16	14-16	7Women	Twin	
17 Nuia D	Female	Adult	Green	M	M		7 Twin	
18 Amauri D	Male	Adult	Red Black	L	L		12 Twin	

“More than 92% of the families that have gone through the Alexandria House program remain in permanent housing”-Alexandria House

If you have any questions, please reach out to Linda Deunay, Women of ASPE Region 4 linda@epwest.com.

Thank you. We appreciate your support.



ASPELA TIMES



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