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ASPELA TIMES

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

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January 2024

Volume 21 Issue I

PRESIDENT'S REPORT

Thura Zin CPD, GPD

President



November speaker:
Mr. Michael LeMaster
Field Technical Rep - Western Region,
Charlotte Pipe & Foundry Company

On behalf of the LA Chapter Board, we want to wish all members, friends, and families every happiness this holiday season and throughout the 2024 year. We hope you enjoyed some good, 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 extend my sincere appreciation for organizing the insightful presentation on "Value Engineering Considerations" by Mr. Michael LeMaster, Technical Field Representative at Charlotte Pipe and Foundry Company. It was a valuable and enriching experience to learn about the intricacies of value-engineered piping from an expert in the field. Mr. LeMaster's expertise and the comprehensive nature of the presentation provided valuable insights that are certain to benefit those in our industry. Understanding the nuances of value-engineered piping is crucial, and the information shared during the session will undoubtedly contribute to the professional development of the attendees.

The upcoming January meeting and the presentation by Mr. Reece Hoben, National Sales Manager at MediTrac, on "New Innovations in Medical Piping." The topic, focusing on the Code acceptance of corrugated tubing for medical gas piping, sounds incredibly intriguing and relevant to the advancements in our industry.

Due to the new year being close to the first Wednesday of the month, our New Year's meeting will be on January 10th. The meeting will start at 6:30 p.m.

please continue reading on page 21

January Meeting

Date: January 10, 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: New Innovations in Medical Piping

Speaker: Mr. Reece Hoben
National Sales Manager,
MediTrac

Future events include:

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

See inside for Details...



inside...

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AMERICAN SOCIETY OF PLUMBING ENGINEERS LOS ANGELES CHAPTER

January 10, 2024, Meeting
“New Innovations in Medical Piping”
By Mr. Reece Hoben
National Sales Manager
MediTrac

WHAT YOU WILL LEARN:

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

- Code Acceptance of Corrugated Medical Tubing
- Listing Standards for Corrugated Medical Tubing.
- Applications and Usage of Corrugated Medical Tubing.
- Installation Requirements of Corrugated Medical Tubing.
- Sizing and Design for Corrugated Medical Tubing

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: January 8, 2024

THE SPEAKER:



Reece Hoben is National Sales Manager at MediTrac and has over 20 years' experience in healthcare market with emphasis on medical piping and applications. Reece has bachelor's degree in economics and communication from University of North Carolina at Chapel hill.

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

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

2024 State-Funded Online CADD/BIM Training Schedule

Our new schedule has just been released. Make sure you reserve your seat today! Below is our latest State-Funded BIM/CADD training schedule.

For Seat Reservations **Please Contact Barry at (949) 393-8866** or email me at barry@ach.edu or barry@westech.edu for registration.

See you in training!

Location: Online

Class: Revit (MEP)

Day: Monday & Wednesday

Time: 5:30 pm - 9:30 pm

Meeting Dates: *JANUARY- 24, 29, 31 *FEBRUARY- 5, 7,12, 14, 21, 26, 28

*MARCH- 4, 6, 11, 13, 18, 20, 25, 27 *APRIL- 1, 3, 8, 10, 15, 17, 22

Online Training

Live Instructor (Virtual) / Interactive

Location: Online

Class: Revit (Architectural)

Day: Tuesday & Thursday

Time: 5:30 pm - 9:30 pm

Meeting Dates: *JANUARY- 23, 25, 30 *FEBRUARY- 1, 6, 8, 13, 15, 20, 22, 27, 29

*MARCH- 5, 7, 12, 14, 19, 21, 26, 28 *APRIL- 2, 4, 9, 11, 16

Location: Online

Class: AutoCAD

Day: Tuesday & Thursday

Time: 5:30 pm - 9:30 pm

Meeting Dates: * JANUARY- 23, 25, 30 *FEBRUARY- 1, 6, 8, 13, 15, 20, 22, 27, 29

*MARCH- 5, 7, 12, 14, 19, 21, 26, 28 *APRIL- 2, 4, 9, 11, 16

**Schedule is subject to change

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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

Merry Christmas and a Happy New Year! Dear ASPE LA friends! We couldn't have made it through the past year without your incredible support. May 2024 bring new happiness, new goals, new achievements, and a lot of new inspirations to your life. I wish every day of this new year to be filled with success, happiness, great health, and prosperity! A new year means a new chapter. I hope 2024 is an incredible year to all persons a part of the ASPE LA story!

Fellow ASPE LA members, I would like to remind you on couple of housekeeping 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. We will have plenty of food and drinks, live entertainment, free valet parking – only missing piece to make this picture perfect is you! So, make an extra effort to be there be. ASPE LA BOD will be delighted to see you and your significant other at this event. For reservation or questions please reach out to me at vahan.margaryan@arup.com. Check your inbox for separate email blasts for additional details.

2. Reminder - 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. Reminder - 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

continued on page 14

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TEST REPORT

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Ontario, California - USA 91761 - 2816
Ph: 909-472-4100 | Fax: 909-472-4243
<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

All Electric Building Part 2

The last two months I discuss the status of mandatory all electric building construction in the City of Los Angeles.

Listed below is the excerpt from the California Air Resources Board Zero Emission Buildings - CALGreen <https://ww2.arb.ca.gov/our-work/programs/building-decarbonization/building-standards-code/zero-emission-buildings-calgreen>

“Buildings are a major source of greenhouse gas emissions in California, and reducing their emissions is critical to achieving the State’s climate goals as outlined in the 2022 Scoping Plan. The clear first step toward this goal is avoiding new sources of emissions from the appliances and equipment that are installed in newly constructed buildings.

Therefore, CARB is recommending mandatory zero-emission residential new construction standards in the 2024 triennial CALGreen code cycle. If adopted, the requirements would take effect on January 1, 2026. This date aligns with the 2022 Scoping Plan, which relies on zero-emission new residential buildings beginning in 2026 to meet the State’s climate goals. Additionally, this provision would facilitate criteria pollutant and toxic air contaminant emission reductions from residential buildings.

Read CARB's zero-emission building recommended [regulatory package](#) including [Form 399](#).”

IAPMO SOLICITS PROPOSALS FOR THE 2027 UPC

IAPMO is calling for formal code proposals toward the development of the 2027 editions of these prospective American National Standard designated model codes. All proposals recommending new text, revised text or the deletion of text must be written in legislative format and clearly state the reason behind the recommendation.

Proposals can be submitted using the new IAPMO Codes Portal. No proposals will be accepted after **January 12, 2024**.

[Click here to access](#)

Website Address: <https://codeproposals.iapmo.org/>

Last chance to submit propose code changes for the 2027 Uniform Plumbing Code. See below for current schedule.

2027 UPC/UMC CODE DEVELOPMENT TIMELINE

The [2027 UPC/UMC Code Development Timeline](#) is now available for download.

Or Website address: [2027 UPC.UMC CODE TIMELINE.pdf \(iapmo.org\)](#)

- | | |
|--|-------------------|
| • TENTATIVE - 2027 UPC CODE DEVELOPMENT TIMELINE* | |
| • 1ST TECHNICAL COMMITTEE MEETING VIA TELECONFERENCE | April 18-19, 2023 |
| • CALL FOR PROPOSALS DEADLINE | July 3, 2023 |
| • FOR SUBMISSION OF PROPOSALS | January 12, 2024 |
| • DISTRIBUTE PROPOSALS TO COMMITTEE (ROP MONOGRAPH) | April 1, 2024 |

Thank you for your support,
Kook K. Dean, Interim Vice President Legislative
Kkdean2000gmail.com - 213 280 1691 cell



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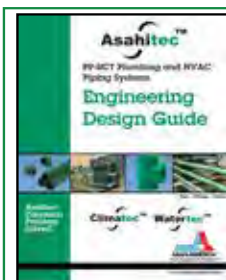


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SCIENCE

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-

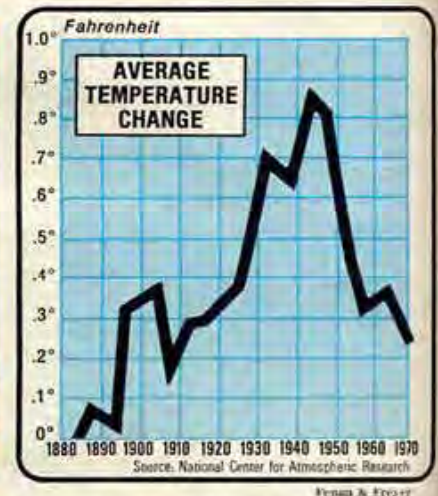
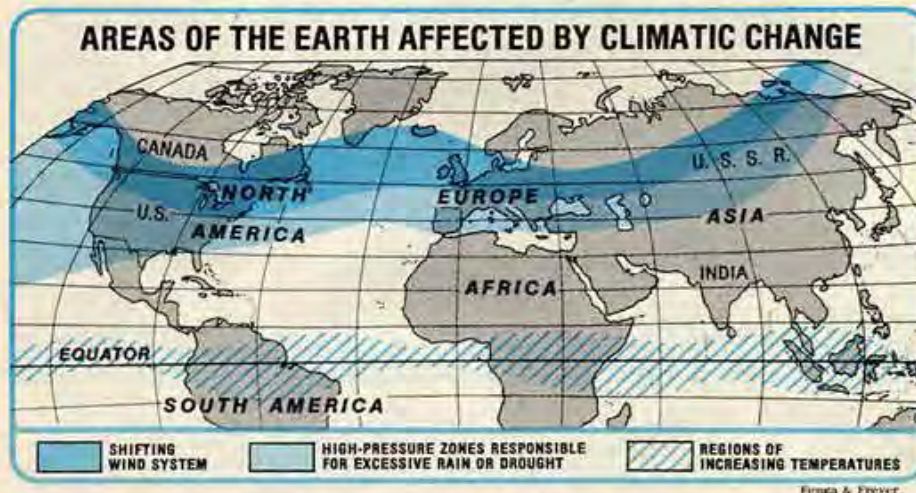
reduce agricultural productivity for the rest of the century. If the climatic change is as profound as some of the pessimists fear, the resulting famines could be catastrophic. "A major climatic change would force economic and social adjustments on a worldwide scale," warns a recent report by the National 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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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 continue the way they are.



VP Tech: continued from page 5

meetings. To avoid future confusion, BOD decided to permanently maintain the second Wednesday's of the month for ASPE LA meetings. Please always verify meeting dates in website, newsletter, or email blast – our January meeting is scheduled for second week – January 10, 2024.

ASPE's biennial Convention & Expo is the only event designed to enhance the professional development, technical education, and career growth of plumbing engineering professionals. To achieve that mission, ASPE seeks expert industry speakers to present 75-minute, nonproprietary technical sessions that address current industry trends and technologies at the 2024 event in Columbus, Ohio on October 18–23. Visit aspe.org/2024-presenter-application to submit your presentation for consideration.

Reminder - 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, 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.





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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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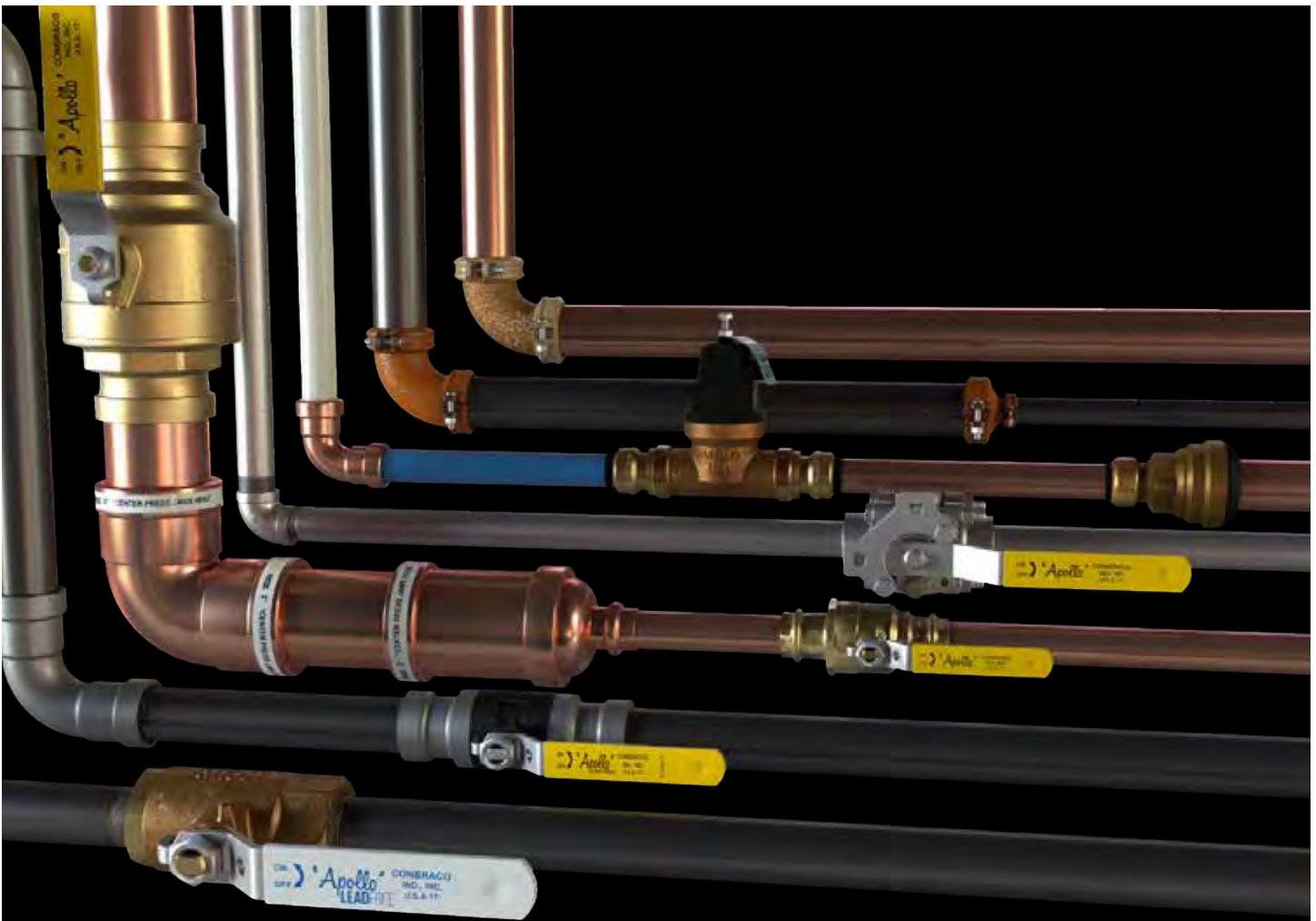


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PRESIDENT: continued from page 1

Our ASPE – Los Angeles an annual holiday dinner will be on January 27, 2024. so please come join with us. Our VP Technical - Vahan will be host this event. The venue will be held at Bellezza Banquet Hall, 11009 Burbank Blvd., North Hollywood. There will be limited seats. Please get ticket ASAP.

I am excited to announce that this year marks the election year for the LA Chapter board. If you are passionate about contributing to our community and would like to take on a leadership role, we welcome your candidacy.

Please express your interest in running for the LA Chapter board by informing me or reaching out to Mr. Cory Nakanishi, who will be serving as the chair of the election committee. Your participation is crucial, and we encourage young professionals to consider joining us in any available position.

This is a fantastic opportunity to make a meaningful impact and shape the direction of our chapter. Your dedication and fresh perspectives will be invaluable as we continue to grow and thrive together.

We are thrilled to share exciting news about the upcoming 2024 ASPE Convention and Expo in Columbus, Ohio, scheduled for October 18 through 23. This event presents a fantastic opportunity for all members to enrich their knowledge, stay updated on industry trends, and connect with professionals from across the field. Save the date for this enriching experience that promises to provide valuable insights, networking opportunities, and a chance to engage with the latest innovations in our industry. The ASPE Convention and Expo is a highlight of our calendar, and

we encourage all members to consider attending.

As we gear up for the 2024 ASPE Convention and Expo in Columbus, Ohio, we are excited to announce the commencement of the delegate selection process for our chapter. Your active involvement and participation in local meetings are crucial, and we encourage all eligible members to consider taking on a delegate role. To ensure a comprehensive representation of our chapter, we have outlined a sensible approach for delegate selection. As we aim to select a total of 8 delegates and one alternate, your active participation in local meetings will be a key criterion for eligibility.

Your insights are crucial to the success of our chapter, and we value your input. If you have any topics or ideas for our technical programs, we encourage you to reach out to us or any board member. Your suggestions help us tailor our events to meet the diverse interests and needs of our members.

Please keep an eye on your email for the next meeting invite. We are enthusiastic about the upcoming events and look forward to your active participation. Your presence makes our gatherings vibrant and enriching, and we can't wait to see you at our future programs.





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