

# ASPELA TIMES

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

[www.aspela.com](http://www.aspela.com)

March 2024

Volume 24 Issue III

## PRESIDENT'S REPORT

Thura Zin CPD, GPD

President



**January speaker:**  
**Mr. Dave Pierre**  
Director of Water Safety Programs,  
LiquiTech

Last month's meeting, I was not able to attend due to my traveling to Thailand with my family. My coworkers told me that they had a good meeting.

I would like to thank our speaker Mr. Dave Pierre,

Director of Water Safety Programs, LiquidTech, for his presentation on "Copper-Silver Ionization 101 for Plumbing Engineers". It's great that the session will cover aspects such as how the system works, the advantages of copper-silver ionization compared to other water treatment solutions.

The upcoming March meeting will feature an informative presentation by Paul Galvin, the Business Development Manager from GF Piping Systems, on "Design of Special Waste Piping and Neutralization Systems". Paul will cover the important aspects such as knowledge of codes/standards and client protocols related to special waste discharge, and more. If you have any responsibilities or projects related to special waste piping and neutralization systems, this session could provide valuable insights.

Encouraging members to participate in the chapter election and join the board is a great initiative for bringing fresh perspectives and energy to the organization. If you're interested in running for a position or would like more information, it's a good idea to reach out to Cory Nakanishi via email. You can express your interest, inquire about the positions available, and ask any questions you may have regarding the election process or responsibilities associated with each role.

*please continue reading on page 21*

## March Meeting

**Date:** **March 6, 2024**

**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:** **Design of Special Waste Piping & Neutralization Systems**

**Speaker:** **Mr. Paul Galvin**  
Business Development  
Manager  
GF Piping Systems

**Future events include:**

- Fishing Trip! TBD
- Golf! (tentative) 5-17-24

See inside for Details...



inside...

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AMERICAN SOCIETY OF PLUMBING ENGINEERS LOS ANGELES CHAPTER

**March 6, 2024, Meeting**  
**“Design of Special Waste Piping and Neutralization Systems”**  
**By Mr. Paul Galvin**  
**Business Development Manager**  
**GF Piping Systems**

**WHAT YOU WILL LEARN:**

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

- Knowledge of Codes/Standards and Client protocols pertaining to special waste discharge
- Understanding local AHJ facility discharge permits and allowable "safe" ranges of pH levels.
- When to be concerned with differentiating between the need for double containment piping vs. single wall.
- How to confirm material selected meets the chemical/temperature discharge parameters of the facility process.
- How to properly design a total package special waste neutralization system to ensure client compliance with all AHJ's.

**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: March 4, 2024**

**THE SPEAKER:**



A member of the Boston Chapter of ASPE since the late 1970's, Paul G. Galvin is the Business Development Manager, Life Science/Institutional for GF Piping Systems LLC. He has been involved with design and installation of Special Waste Piping, Special Waste Neutralization and Process Water Piping Systems for over 35 years. Paul began his career at Camp, Dresser & McKee (now CDM-Smith) in the 1970s and in 1986 left the firm to join the GF Piping System team as a manufacturers' representative in the Northeast. Along with his duties as a GF rep, from 1983 until 1999 Paul worked for and owned Monitoring Control Systems, Inc., a manufacturing firm involved in the design and production of many acid/caustic injection pH neutralization systems across the Eastern U.S. Paul currently serves as a member of the "Sub-Committee on Polymers and Elastomers" for the ASME Bio-Processing Equipment Standards Committee. If you have additional questions or needed information on his presentation, you can reach him at: [Paul.Galvin@georgfischer.com](mailto:Paul.Galvin@georgfischer.com)

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



ASPE



Holiday Party



January



2024

## 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](mailto:barry@ach.edu) or [barry@westech.edu](mailto: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](http://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.

[www.h2odegree.com](http://www.h2odegree.com)  
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**TECHNICAL REPORT**

Vahan Margaryan CPD, GPD  
V.P. Technical

First, I would like to extend our appreciation to Dave Pierre from LiquiTech for the very informative presentation during our ASPE LA Chapter January meeting. I found his presentation very educational. His presentation slides with the comparison of copper-silver ionization vs other treatment methods as well as case studies was a highlight for me. The presentation was great with a lot of details for our fellow designers to consider.

ASPE LA Chapter Holiday party was held on Saturday, January 27, 2024 at the Bellezza Banquet Hall. This was ASPE LA's first post-Covid holiday party and I believe we had a successful event. I've received lots of positive feedbacks – food, drinks, entertainment and the service were exceptional. Jeff Atlas was able to arrange the Monkey Bump band for our party – their performance was excellent, and the dance floor was filled with dancers. We are bringing Holiday Party tradition back – looking forward to seeing many of you

again next year.

Please be advised that we are getting closer to ASPE LA Chapter election month. If you consider running for any of the Board positions, please send an email to Cory Nakanishi at cnaka1@charter.net or feel free to talk to any current board member during our March meeting.

Please mark your calendar - ASPE 2024 Convention and Expo will be held in October 18-23 in Columbus, Ohio. LA Chapter will be represented by 7 or 8 delegates. To qualify, member needs to be in good standing position and have exceptional attendance of Chapter meetings. Contact Thura Zin if you are willing and can represent LA Chapter and believe you qualify.

Some other items that I would like to remind you:

1. 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.

*continued on page 14*

# AT LAST - IT'S ARRIVED!

## Just what you've been waiting for!



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**Case Study: Panorama Towers, Las Vegas, NV.**

Cost to install: **\$55,000** ✓  
Savings over conventional softener in year one: **\$168,000** ✓  
Estimated 3-year savings: **\$500,000** ✓  
Annual Running Costs: **\$200**

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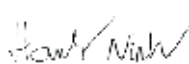
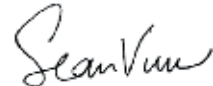


**TEST REPORT**

5001 E. Philadelphia Street  
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, Project Engineer Sean Vuu, P.E., Manager, Specialty Projects

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

### IAPMO Update

The last three 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 Website: <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 (Website: CALGreen package 11-3-23.pdf) including Form 399 (Website: Economic and Fiscal Impact Statement (Regulations and Orders))”

### Last Opportunity for Uniform Plumbing Code changes:

#### 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                                 | July 3, 2023 Deadline |
| • For Submission Of Proposals                        | January 12, 2024      |
| • Distribute Proposals To Committee (Rop Monograph)  | April 1, 2024         |

IAPMO Seeks Public Input on Manual of Recommended Construction Practices for Potable Water

*continued on page 24*



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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-

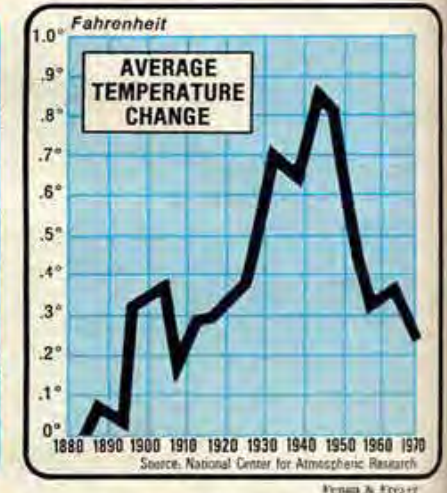
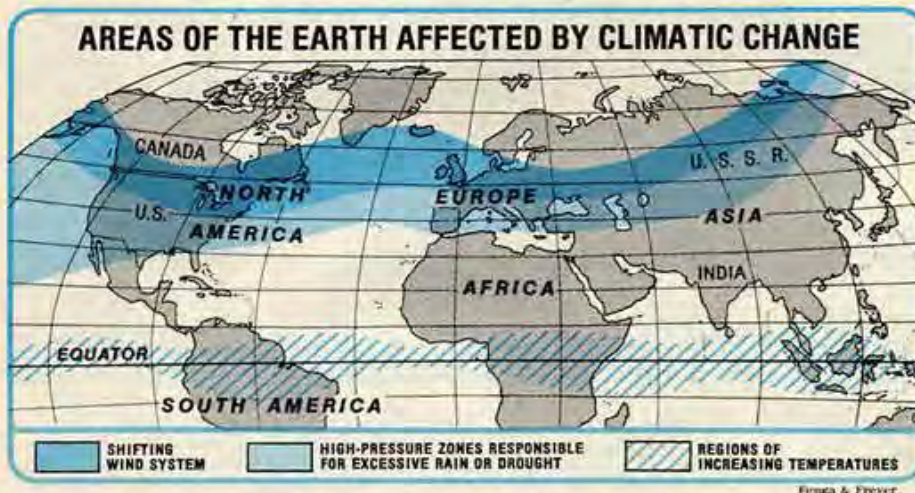
reduce agricultural productivity for the rest of the century. If the climatic change is as profound as some of the pessimists fear, the resulting famines could be catastrophic. "A major climatic change would force economic and social adjustments on a worldwide scale," warns a recent report by the National 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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VP Tech: continued from page 5

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.

- 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 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.

The International Code Council's 2024 International Codes® (I-Codes) are now available for order in print and digital formats. As part of the Code Council's digital transformation strategy to enhance the user experience, the updated I-Codes® have undergone substantial design and formatting changes, resulting in a revolutionary design that improves both readability and sustainability. Visit ICC 's website for additional information International Codes (iccsafe.org).



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**MEMBERSHIP REPORT**

*Robert Galaviz CPD  
V.P.Membership*

I hope this newsletter finds you well. As we navigate through the month of February, it is my pleasure to bring you the latest updates on our ASPE Los Angeles membership. This month I wanted to touch on three separate topics.

**Membership Update: Steady State, Seeking Momentum**

In the current report, I am pleased to share that our total membership numbers remain stable, showing neither an increase nor decrease. However, we recognize that obtaining new members has experienced a bit of a lull lately. While maintaining our current membership is crucial, it is equally essential to continue growing our ASPE Los Angeles family.

**Encouraging Existing Members to Propel Growth**

I encourage each existing member to consider becoming a catalyst for our association's growth. If you have colleagues or industry peers who could benefit from the learning and networking opportunities offered by ASPE Los Angeles, please take a moment to reach out to them. Your personal

recommendation can make a significant impact, and I am here to assist with the enrollment process.

Should you need any assistance in guiding potential members through the registration steps, feel free to contact me directly. I am more than willing to provide any necessary support to ensure a smooth onboarding experience.

**Membership Renewal Reminder: Proactive Approach Needed**

Another notable point of consideration is the issue of members inadvertently ignoring their membership expiration notices. It is crucial for each member to stay informed about their membership status and take a proactive approach to renewing their dues on time.

I kindly remind all members to log in to our main website (<https://www.aspe.org/>) regularly to verify their membership expiration date. This simple step will enable you to stay ahead of any upcoming dues and ensure uninterrupted access to ASPE Los Angeles benefits.

Thank you for your ongoing support and dedication to ASPE Los Angeles.



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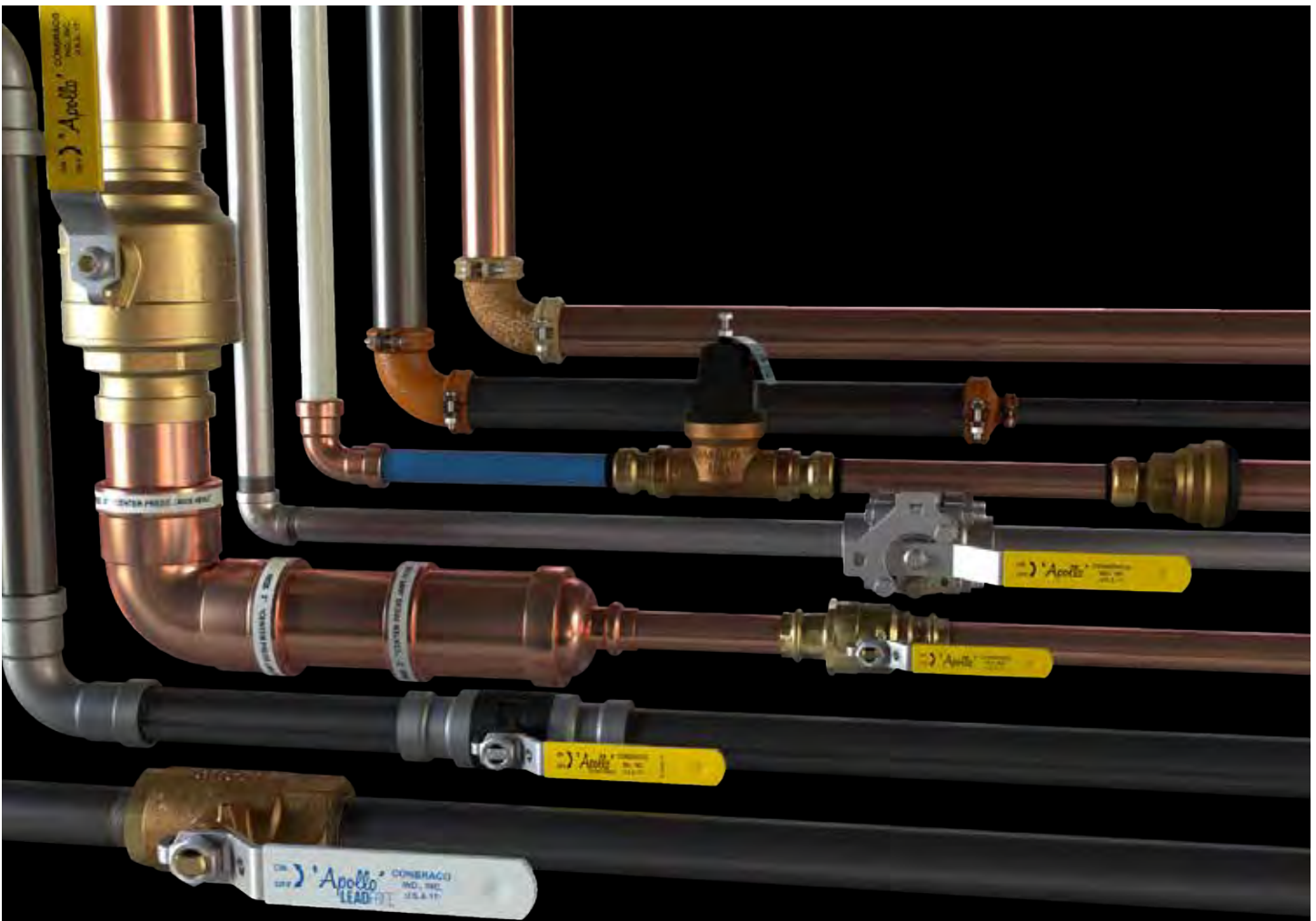


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*PRESIDENT: continued from page 1*

Participating in the chapter board is not only a valuable opportunity to contribute to the organization but also a chance to network, develop leadership skills, and have a positive impact on the chapter's activities. Don't hesitate to take the initiative and get involved in shaping the direction of your chapter.

Also please save the date and plan to attend the 2024 ASPE Convention and Expo in Columbus, Ohio, scheduled for October 18 through 23. We are preparing to send our chapter delegates to the Convention. The selection criteria based on active participation in monthly meetings, as outlined in ASPE Bylaws article 4.6, demonstrates a fair and thoughtful approach to representation. The selection of delegates based on the attending record of active participation in monthly meetings is a fair and effective criterion. We are having a total of 8 delegates, along with one alternate and one young professional, demonstrating a thoughtful approach to representation.

Celebrating the 60th anniversary of your chapter is a significant milestone, and it's wonderful that you're planning various activities to mark the occasion. Encouraging members to share specific topics or ideas for events shows a commitment to making the anniversary celebration meaningful and engaging for everyone.

Members can contribute their input by reaching out to the VP Technical or other board members with their suggestions. This collaborative approach ensures that the anniversary activities align with the interests and preferences of the chapter members. It's a great opportunity for members to have a say in shaping the celebratory events and making the anniversary memorable for everyone involved.

By fostering open communication and inclusivity in the planning process, you can create a celebration that resonates with the chapter's history and the diverse interests of its members. Wishing you a successful and enjoyable 60th-anniversary celebration! 😊

**DONALD F. DICKERSON GOLF TOURNAMENT  
60<sup>TH</sup> ANNIVERSARY LA CHAPTER**

Friday, May 17, 2024 (TBD) ←



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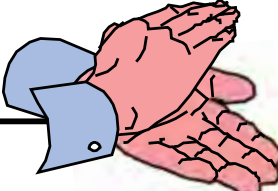
**WHO Showed up?**  
Attendance for the **February 2024** Meeting...

---

The total number in attendance was

34!

plus our speaker!



King Ozymandias of Assyria was running low on cash after years of war with the Hittites. His last great possession was the Star of the Euphrates, the most valuable diamond in the ancient world. Desperate, he went to Croesus, the pawnbroker, to ask for a loan.

Croesus said, "I'll give you 100,000 dinars for it."

"But I paid a million dinars for it," the King protested. "Don't you know who I am? I am the King!"

Croesus replied, "When you wish to pawn a Star, makes no difference who you are."

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So for years now, all the governing agencies touted that natural gas was the clean air, green fuel. You still see the signage stating so on city vehicles around So Cal. I posted one a few issues back from the city of Ventura. Now, all of a sudden, natural gas is going to kill us all... what?!?!?!?

Electrification is a very bad idea and the stated reasons are not rooted in truth. The real reasons are not even discussed. Our industry should be the front line pushing back but sadly it is not the case.

It will not be long before you and I will not be allowed by the government to charcoal grill steaks in our backyards. Both charcoal and meat will be banned. See the WHO comments regarding this.

What was the temperature situation in 1936? See my report next issue.

Is dissent, a diversity of view, even tolerated? See pge 11...



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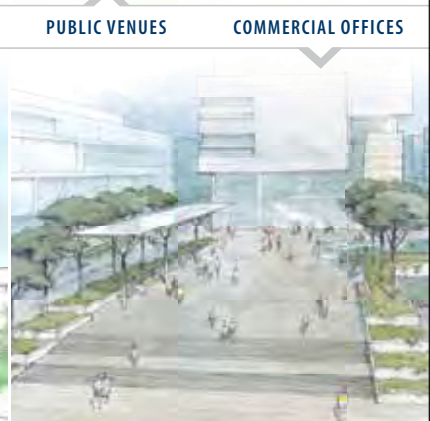
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*continued from page 6*

Ontario, Calif. — The International Association of Plumbing and Mechanical Officials (IAPMO®) and the Medical Gas Resiliency Task Group are seeking the public's initial input for development of the Manual of Recommended Construction Practices for Potable Water. On Sept. 15, 2021, IAPMO initiated the task group to create a manual to provide code enhanced and adoptable language for construction use related to potable water piping systems and water management during the construction phase.

This manual provides education and guidance to help plumbers and other personnel responsible for the design, construction and commissioning of water systems reduce the likelihood of contaminating plumbing systems during construction. If unmanaged, construction and commissioning activities contribute to the growth and spread of opportunistic premise plumbing pathogens (OPPPs) in potable and non-potable building water systems. It also includes a bonus water quality manual produced by ESPRI/IAPMO.

The task group consisted of industry experts from across the nation, focused on actionable guidance and construction best practices surrounding potable water.

“We are excited to provide the construction practices for potable water for the public's consideration,” said IAPMO Vice President of Technical Services and Research Christoph Lohr. “We welcome industry feedback as this document will continue to help fill the void in the water quality-plumbing nexus. Special thanks to IAPMO staff and volunteers for their effort on this manual.”

The IAPMO manual may be downloaded for free [HERE](https://www.iapmo.org/media/32180/construction-practices-for-potable-water-manual-public-review.pdf) (Website: <https://www.iapmo.org/media/32180/construction-practices-for-potable-water-manual-public-review.pdf>)

For questions, please contact John A. Mullen at (631) 994-4774 or [John.Mullen@iapmo.org](mailto:John.Mullen@iapmo.org), or Christoph Lohr at (909) 731-0219 or [christoph.lohr@iapmo.org](mailto:christoph.lohr@iapmo.org).

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