

# ASPELA TIMES

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

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

April 2024

Volume 24 Issue IV

## PRESIDENT'S REPORT

**Thura Zin CPD, GPD**

**President**



**January speaker:  
By Mr. Paul Galvin  
Business Development Manager  
GF Piping Systems**

Year 1964 April 8, the first organized meeting was held by the 35 plumbing engineers in the office of John Kerr Associate. On that day a temporary interim Committee was established. On that day, our LA Chapter was formed. This year is our 60th Anniversary of the founding chapter and I received a pledge from Society. Celebrating such milestones is a great opportunity to reflect on the accomplishments of the past and look forward to the future.

Secondly, I want to remind our members, ASPE LA May 8th meeting will be held at the LADWP La Kretz Innovation Campus. There will be a facility tour and hot topic "Peak Water Demand Calculator" presented by Christoph Lohr - Vice President of Technical Services and Research, IAPMO. We need head counts, so you can RSVP after the April meeting.

I would like to thank Paul Galvin, on "Design of Special Waste Piping and Neutralization Systems". This month our chapter's meeting presenter is Ms. Elizabeth Abell, Medical and Laboratory Gas Consultant from Pattons Medical. She will present the tips on how to size the Medical and Non-Medical Air and Vacuum systems.

This month is our chapter election, and we are not able to fill in the Vice President Legislative position. If you are ASPE member with good standing and interest to join us as VP leg, please let us know. Or VP Tech, please

*please continue reading on page 21*

## April Meeting

**Date:** **April 3, 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:** **Ms. Elizabeth Abell, ASSE**  
**6060 Medical and Laboratory Gas Consultant**  
**PATTONS MEDICAL**

### 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

**April 3, 2024, Meeting  
 “Specialty Air & Vacuum”  
 By Ms. Elizabeth Abell, ASSE 6060  
 Medical and Laboratory Gas Consultant  
 PATTONS MEDICAL**

**WHAT YOU WILL LEARN:**

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

- Medical air and vacuum
- Non-medical air and vacuum in a healthcare facility
- Laboratory air and vacuum
- Tips on how to size specialty air and vacuum

**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: April 1, 2024**

**THE SPEAKER:**



Elizabeth Abell is an engineer specializing in medical gas and laboratory design over the last 19 years. She is Medical Gas professional specializing in med gas design per NFPA 99 code, sizing source equipment, and providing manufacturing take offs. Consultant for national hospital/healthcare groups to streamline their med gas policies, annual evaluations, and meet maintenance requirements to meet NFPA99 requirements.

If you have additional questions or needed information on his presentation, you can reach her at [Elizabeth.abell@pattonsmmedical.com](mailto:Elizabeth.abell@pattonsmmedical.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](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.

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**TECHNICAL REPORT**

Vahan Margaryan CPD, GPD  
V.P. Technical

Well, the rain did not stop many fellow ASPE members from joining our March in-person meeting! On March 6th Mr Paul Galvin from GF Piping Systems conducted a great presentation at our usual location Courtyard by Marriott in Burbank discussing special waste piping and neutralization systems. Thank you, Paul!

On Saturday March 16th many ASPE members participated at the Sporting Clays Shotgun Shooting Fundraiser to benefit Scout Troop 209, Burbank. Beautiful South California weather, great scenery, and blooming flowers along with the loud shotgun shots that were surrounding us on that Saturday morning. Our affiliated fiends from Renco sales, Mainline Sales, Rheem, Signature Sales, Delco Sales, Watts Water, Anaco-Husky and Enviro Product West were among the generous sponsors. Kudos to all of you!

ASPE LA Chapter members – we will be having Chapters’ Board of Directors election during our April

meeting. If you would like to run for any BOD position, please reach out to Cory Nakanishi – our committee chair.

Here is the list of upcoming ASPE LA events:

1. ASPE LA May 8th meeting will be held at the LADWP La Kretz Innovation Campus. There will be a facility tour and “hot topic” presentation by Christoph Lohr from IAPMO. Meeting email blast will be distributed at the first week of April, so you can properly schedule your time.
2. ASPE Golf Tournament is scheduled for June 14th at Brookside Golf Club. Flyer with additional information will be distributed soon.
3. Fishing trip – we are still in process of negotiations but aiming to have it sometime in August/September.
4. ASPE LA Family Picnic will be held in September/October. There are potentially couple of locations that we are evaluating at this point.
5. ASPE LA Chapter Special 60th Year anniversary diner/meeting will be held on October 9th. We are discussing with multiple venues to have special type arrangement. Additional information to follow.

*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.**

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

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

- SB 760, Newman. School facilities: all-gender restrooms.

The bill will require, on or before July 1, 2026, each school district, county office of education, and charter school, including charter schools operating in a school district facility, maintaining any combination of classes from grades 1 to 12, inclusive, to provide and maintain at least one all-gender restroom for voluntary pupil use at each of its school sites that meet specified criteria. The bill will require the all-gender restroom to meet certain requirements, including, among other things, that it has signage identifying the bathroom facility as being open to all genders and is unlocked, unobstructed, and easily accessible by any pupil.

1. Required to comply with the Division of the State Architect BU 17-01-01: Identification of Single-User Toilet Facilities as All-Gender: Frequently Asked Questions (PDF) Issued 03/30/17. [Website: [https://www.dgs.ca.gov/-/media/Divisions/DSA/Publications/bulletins/BU\\_17-01-01.pdf](https://www.dgs.ca.gov/-/media/Divisions/DSA/Publications/bulletins/BU_17-01-01.pdf)].
  2. Not a code section: It might seem like a good idea to rule out: urinals. The Installation of an urinal in your all-gender restroom would reduce waiting times for female users, and also help minimize the risk of pee on the toilet seats.
- The California Building Standards Commission has approved the adoption of IAPMO's Uniform Plumbing Code (UPC®) Appendix M—the Water Demand Calculator®—into the California Plumbing Code (CPC) as an alternative methodology for sizing water pipes in single- and multifamily buildings. The alternative approach will be available for statewide use on a voluntary basis starting July 1, 2024.

IAPMO will host a California Water Demand Calculator Webinar at noon PDT on July 1, 2024. To register, visit [iapmo-org.zoom.us/webinar/register/WN\\_NjEVXypfT0KN-sQPPR\\_TsA](https://iapmo-org.zoom.us/webinar/register/WN_NjEVXypfT0KN-sQPPR_TsA). The Water Demand Calculator version 2.2 and user guide, as well as IAPMO Senior Director of Workforce Training and Development Randy Lorge's presentation at the organization's 2023 Education and Business Conference, a webinar he hosted February 21, and other related videos, are available at [iapmo.org/we-stand/water-demand-calculator/water-demand-calculator-california](https://iapmo.org/we-stand/water-demand-calculator/water-demand-calculator-california). For specific information about the Water Demand Calculator or to provide feedback, please contact Lohr at [christoph.lohr@iapmo.org](mailto:christoph.lohr@iapmo.org).

This will be my last report. It was fun while it lasted.



**from Cory Nakanishi:**

I would like to give a shout out to our prize sponsors. A big thank you to all our ASPE members who came out to support our fundraiser this year and to the following prize sponsors for their generous donations:

- Mike Benisek – Mainline Sales
- Jack Dunaway – Anaco-Husky
- Adam Haussman – Delco Sales/Watts Water
- Linda Deunay – Enviro Products West
- Casey Wise – Renco Sales
- Matt Farrel – Renco Sales
- David Kelly – Rheem
- Steve Komenda – Signature Sales

Also, Pacific Sporting Arms in Azusa for donating a Beretta A400 12 Gauge (\$1,600 value) which was won by Marida Fender of PBS Engineers

Congrats to all the prize winners!

Thanks!

Best Regards,

Cory Nakanishi, CPD, FASPE





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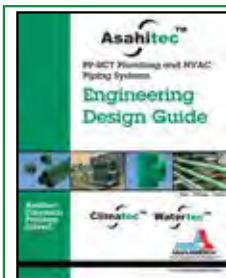


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SCIENCE

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-

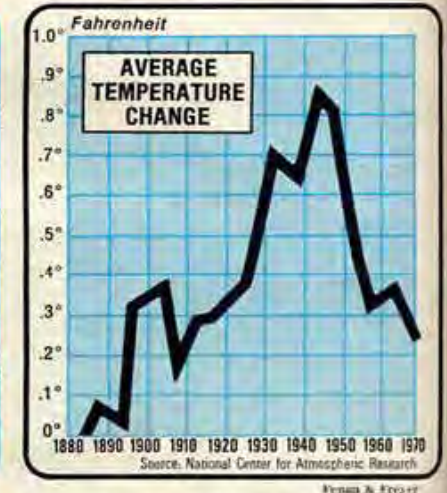
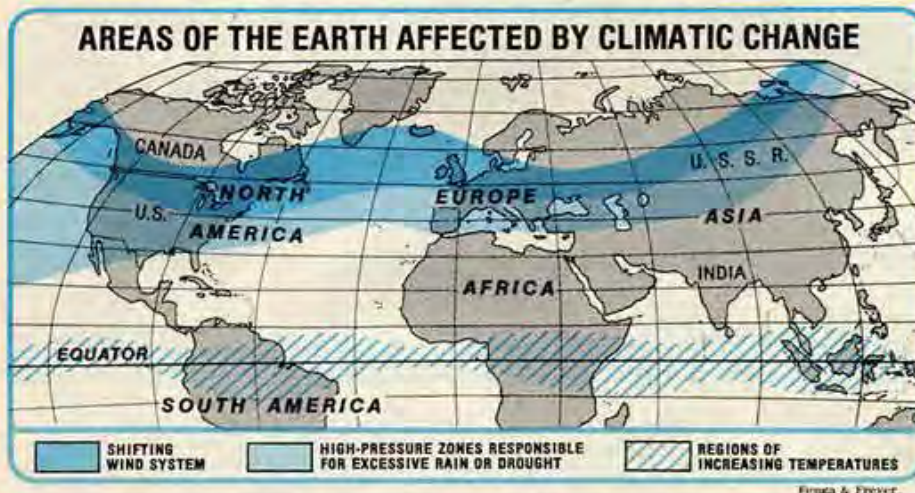
reduce agricultural productivity for the rest of the century. If the climatic change is as profound as some of the pessimists fear, the resulting famines could be catastrophic. "A major climatic change would force economic and social adjustments on a worldwide scale," warns a recent report by the National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

- ASPE 2024 Convention – ASPE LA Chapter will be sending nine delegates to the Convention. Candidates must be ASPE member in good standing and actively participated in ASPE LA meetings. reach out to board members if you believe you qualify and willing to represent ASPE LA.

The eighth Emerging Water Technology Symposium (EWTS) is taking place on May 14–15 in Scottsdale, Arizona. The theme for this year’s conference is “The Nexus Between Sustainability and Safety: Avoiding Unintended Consequences,” and CEUs are available for participating. Registration is now open - visit ewts.org to see the complete conference schedule and register.



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**MEMBERSHIP REPORT**

*Robert Galaviz CPD  
V.P.Membership*

As we delve into the updates for March, I am delighted to share some exciting news regarding our membership.

**New Members Welcomed**

First and foremost, I'd like to take a moment to extend a warm welcome to our newest members who joined ASPE Los Angeles this month: Gilbert Bautista, Alireza Momeninezhad, P.E, Drew Ferguson, and Isai Alcaez. Your decision to become part of our chapter is truly appreciated, and we look forward to seeing you at our meetings!

**Continued Focus on Member Acquisition**

While celebrating our new members, it is essential to reinforce the importance of member acquisition to

sustain the growth and vitality of ASPE Los Angeles. As we welcome new faces, let us also remain committed to actively seeking out new members to join our chapter. I ask each member to contribute to expanding our network. This will allow us to enrich and diversify our professional community.

If you have colleagues, industry contacts, or peers who could benefit from the resources and networking opportunities we offer, I urge you to extend an invitation to them. Remember, your advocacy can make a significant difference in shaping the future of our chapter.

Thank you once again to our new members for choosing ASPE Los Angeles, and to all members for your continued support and dedication.



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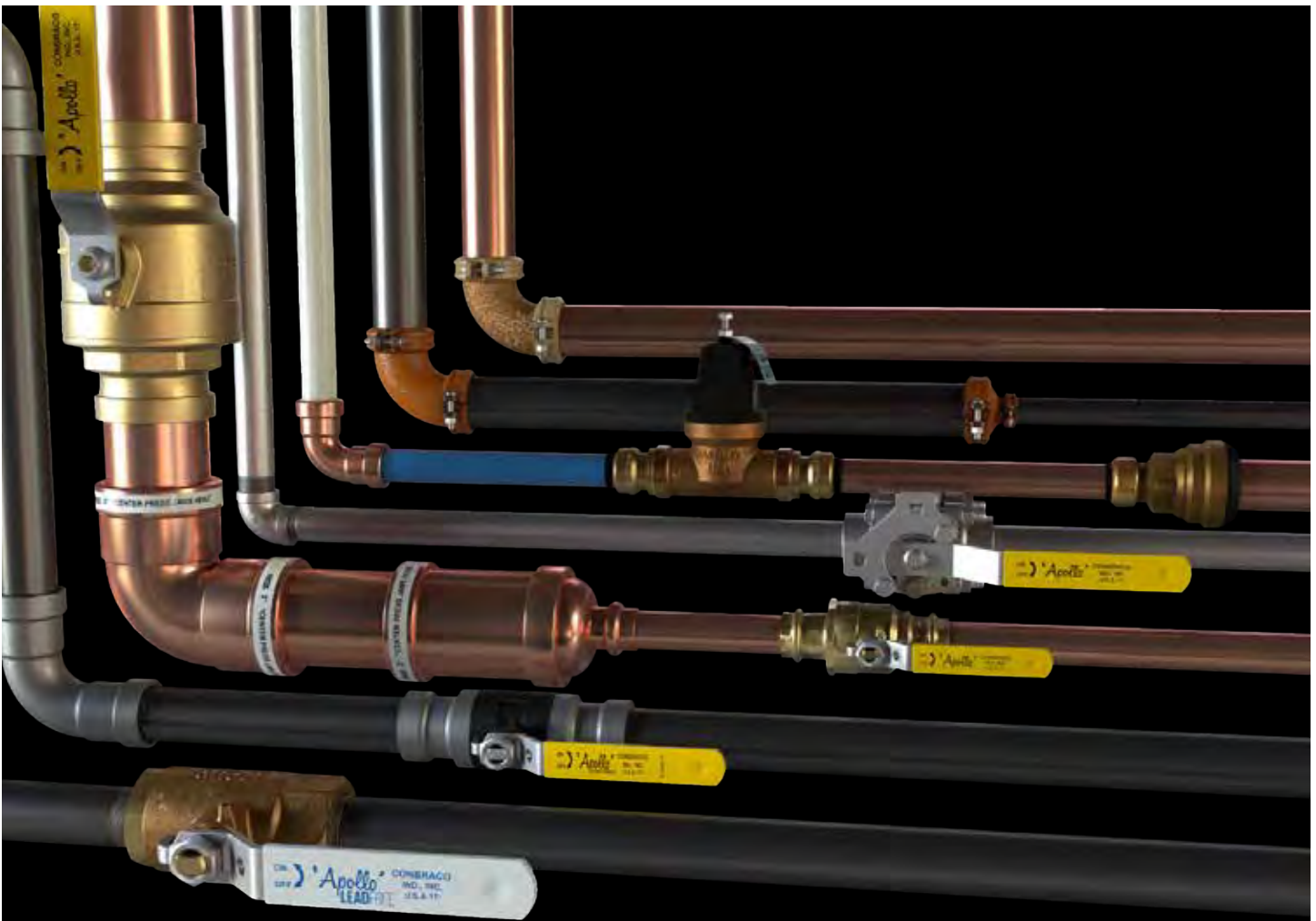


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PRESIDENT: continued from page 1

let me know. We encourage our members to participate in the chapter election and joining the board is a great initiative for bringing fresh perspectives and energy to the organization. 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.

Our next golf tournament will be tentatively on June 14, 2024. Please contact me and David Kelley.

Also please save the date and plan to attend the 2024 ASPE Convention and Expo in Columbus, Ohio, scheduled for October 18 through 23. The registration will be open this month. Please if you are planning to go, please book the hotel first.

We are preparing to send our chapter delegates to the

Convention. 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. We're planning to invite our first 56 members and families to attend our chapter October's meeting and celebrate with them. Encouraging members to share specific topics or ideas for events shows a commitment to making the anniversary celebration meaningful and engaging for everyone.

If you have any suggestions to learn the subjects, please let us know.



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

Friday June 14, 2024

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 Attendance for the **March 2024** Meeting...

The total number in attendance was

**35!**

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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*Jeff Atlas*

*Administrative Secretary... and your newsletter editor*

Our participating members are tough! The rain was pouring down ruining the governments continuous argument for emergency drought conditions, and yet our meeting room was full to receive a wonderful lecture from Paul Galvin on the subject of the Design of Special Waste Piping and Neutralization Systems. Thank you Mr. Galvin. Well done. If you are reading this and you were not there, you should have been!

I saw this truck in Newhall last week. It reads "Powered by Renewable Natural Gas. Delivering Concrete Results for a Cleaner California".



I guess whatever the authority's whim is at the moment is what you will believe. What's next?



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