It’s time for a golf tournament update. The 2017 Golf Tournament will be May 12 at the Brookside Golf & Country Club. If you want to sponsor a foursome or a sign at a golf hole, please see our golf flyer and contact a member of the golf committee. Contact John Zagorski or Kurt Bramstedt to save your spot.

The chapter meeting in March had better attendance than in February with 56 members attending. April’s meeting’s topic is, “Variable Frequency Drive – Domestic Booster & Hot Water Recirculating Pumps,” by Mike Madsen from Grundfos Pumps. Come and join us.

I would like to thank John Koeller for his presentation regarding the MaP testing. He told us why this testing is so important. Supposedly, end users are happy with the 1.28 gallon toilets.

May is the Board of Directors election for the upcoming year. Currently, I have not received notice of anyone wanting to run for May’s election. If you are interested in running for any LA Chapter Board of Director position, please let me know or send an e-mail to me at thura.zin@arup.com before April 4th. If I have not received any notifications by then, we will not need to hold an election in May. Let me encourage you to run for office. We need new ideas and vitality.

Be sure to go to ASPE’s website and review the Policy & Operations manual for the position you are planning to run for so that you will be knowledgeable on the responsibilities of that position on the Board of Directors.

I’d like to report what happened at last month’s Region 4 Chapter Presidents meeting. A CPD Review Manual is being provided for chapters to purchase and download for use in a local review session. It might be a little late to use this year, but we will purchase it and keep the manual for next year.

continued on page 20
Technical & Social Calendar

APRIL 5, 2017  “VARIABLE FREQUENCY DRIVE – HOT WATER RECIRCULATING PUMPS”  (SN #17-04)  
SPEAKER:  MR. MICHAEL MADSEN  
Commercial District Sales Manager  
Grundfos Pumps

MAY 3, 2017  “LADWP PRESENTS:”  
• The Energy-Water Nexus by David Jacot  
• Water Conservation Strategies by Penny Falcon  
• Smart Meters by Mark Gentili  
• Graywater Treatment System at LACI by Val Amezquita  
(SN #17-05)  

Note that this meeting will be held at the new office of LADWP/LACI at 525 S. Hewitt Street, Los Angeles, CA 90013. Please put this schedule in your calendar. Flyers to Follow. Free Parking

MAY 12, 2017  “THE ANNUAL DONALD F. DICKERSON ASPE GOLF TOURNAMENT” – See Flyer for Information  
Brookside Golf & Country Club, Pasadena, CA 91103

JUNE 7, 2017  “SOLAR WATER HEATING”  
(SN #17-06)  
SPEAKER:  MR. SEAN NEMAN  
CALSOLAR

JULY 12, 2017  “NSF/ANSI 61 – THIRD PARTY CERTIFICATION AND STANDARDS”  
(SN #17-07)  
SPEAKER:  MR. JEREMY BROWN  
Senior Technical Reviewer- Plumbing Division  
NSF International

AUG. 2, 2017  “PRESS TECHNOLOGY”  
(SN #17-08)  
SPEAKER:  MR. THOMAS WEBB  
Technical Manager  
Viega – Southern California

AUG. 16, 2017  “ASPE LA-OC PRODUCT SHOW & TECHNICAL SEMINAR”  
LOCATION:  Holiday Inn La Mirada  
14299 Firestone Blvd.,  
La Mirada, CA 90638
Apologies for not being at the March 1 meeting, but heard that our guest speaker Mr. John Koeller provided a very informative presentation on “MaP Testing: 14 Years Old and Growing – An Introduction and Update”. He explained the origin of a problem, for example on when the Federal Government mandated the use of 1.6 gallons maximum toilet flush in 1994. He also explained the U.S.-Canadian Certification Process which has 3 major problems such as (1) testing fails to replicate “real world” conditions; (2) 100% removal of waste not required; and (3) Pass/fail only – no rating or ranking of performance for consumers. He also discussed the Certification Process in North America and its results; How the 3 Water Utility companies responded to this testing; and the evolution of the specifications; and many more good information. On behalf of the ASPE-LA Chapter Board of Directors, we want to thank John for a very informative presentation.

On the April 5, 2017 meeting, we are bringing back to you Mr. Michael Masen who will be talking about “Variable Frequency Drive – Hot Water Recirculating Pumps”. Please come and join us.

I had been mentioning that reservation for the Table Top is still open. Please let me know, via e-mail, if you are interested. We have availabilities starting May 2017. For the April 5 Meeting, our Table Top will be Daybreak Technologies and it will be presented by Mr. Roland Gutierrez.

I am glad to announce that I have toured the LADWP/LACI Building in Los Angeles where our May 3, 2017 meeting will be held. It will be a combination of technical meeting and tour of their building which will showcase the graywater installation, water conservation lab and many more. Please do not forget our May 3 meeting will be held at LADWP/LACI at 525 S. Hewitt Street, Los Angeles, CA 90013 from 5:00P.M. to 8:30P.M. Technical Presentation is from 6:30-7:15 PM. Details of the Technical Session & Tour will be provided later. Parking is free.

There will be a slight change in our Technical Calendar, the Medical Gas Seminar slated for May 9, 2017, is temporarily on hold. We will let you know when this will be re-scheduled.

Latest news from the ASPE Pipeline, volume 10, No. 5, March 2, 2017:

2017 ASPE Technical Symposium Sponsorship Program continues to grow
Copper Development Association and Uponor have signed up as the first Platinum Sponsors of the 2017 ASPE Technical Symposium, joining Silver Sponsors Charlotte Pipe & Foundry Company, Navien Inc., and NSF International. The 2017 ASPE Technical Symposium is being held October 19–22 in Montreal, and only Sponsors are able to exhibit at the exclusive Product Show on Thursday night and Friday morning. To sign up, contact Brian Henry at bhenry@aspe.org or 847.296.0002 x235.

Presentation proposals for the 2018 Emerging Water Technology Symposium are sought
ASPE is co-convening this sixth biennial event with IAPMO, PMI, AWE, and WPC, and it will be held in the Spring of 2018 in Ontario, California. Presentation proposals on water- and plumbing-related issues such as the water/energy nexus, water efficiency, water quality, alternate water sources, and more are now being accepted. You can learn more about the event and how to submit a presentation proposal here.

Beef up on the basics at our May 5 workshop
This full-day workshop at ASPE’s headquarters outside of Chicago will cover the design of domestic cold and hot water systems, sanitary sewer systems, and storm drainage systems, including how to properly coordinate continued on page 20

He explained:

• First, the "What Changed" section provides the color coded edits illustrating the actual change in code language.
• The "Why It Changed" section provides the rationale as to why the change was made and how the change came about.
• Finally, the most significant and useful section, "What It Means to Me", describes how the various code users, such as installers and inspectors, will be impacted by each change.

I searched for the document on the IAPMO website; I could not find it. I was able to locate a copy at: www.bnibooks.com/product/2015-upc-umc-guide-to-important-code-changes.

Jim Dimit mentioned this was a great book because it provided the forementioned information. I will discuss the book with the LA Chapter Board at the April Meeting.

---

WHO Showed up?

Attendance for the March 2017 Meeting...

The total number in attendance was

56!

plus our speaker!
The board meeting was called to order by President Thura Zin at 5:00pm. The upcoming golf tournament on scheduled for May 12, 2017 was talked about. We are looking to upgrade the raffle prizes! Dinner was confirmed by the board to be $35 if paid by credit card and $30 if paid in cash. The gold flyer will be inside the newsletter this issue. It will also be blasted out to the membership several times in March. This year the picnic will start on a Saturday, September 16th with a dinner BBQ in the evening. Arrival time should be no earlier than 2pm. Look for details in the next issue of the newsletter. Kook Dean will be putting together the picnic flyer. The event will be held at the Arcadia Wilderness Park. The venue will be available to ASPE for 24 hours so an overnight stay may be permissible. David Kelly is looking to see if RVs are allowed. The LA Chapter is looking for sponsorships for the picnic.

There will be a product show on Wednesday, August 18 at the La Mirada Holiday Inn. John Z. is working on the flyer now as well as the room layout.

Board meeting adjourned at 5:45pm

---

The general meeting was called to order by President Thura Zin at 7:05pm. We started with thepledge of allegiance and next came announcing all of the past presidents in attendance. We then went to self introductions.

John Zagorski spoke about the golf tournament that will be taking place on May 12, 2017. We are looking to fill both courses at Brookside in Pasadena.

Announcement about the product show coming up on August 18th and a flyer will be sent out shortly.

David Kelly then spoke about the upcoming picnic taking place on September 16 through 17 at Arcadia Wilderness Park. The event is said to begin a 2pm on Saturday and go until Sunday at noon. Sponsors so far... Specification Sales, Custom H2O, Enviro Products West, Dawson Co., Curbolet, Mainline Sales, Rayne Water Systems of Canoga Park, Delco Sales, Fletcher Co., Signature Sales, Blucher, Culligan, Lubrizol & Weil Aquatronics. David Kelly looking into RV access. The entertainment is, as of yet, still undetermined.

continued on page 17
THE ANNUAL DONALD F. DICKERSON ASPE GOLF TOURNAMENT

Friday, May 12, 2017
Brookside Golf & Country Club
1133 Rosemont Ave.
Pasadena, CA 91103 - 626-585-3594

Team Best Ball Format
Shotgun Start @ 8:00am
Check In Begins @ 6:00am

Sponsorship Opportunities Include:

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<td>Breakfast and Lunch</td>
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<td>ASPE - LA</td>
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<td>Send form and checks to:</td>
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<td>Hal Alvord</td>
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<td>Donald F. Dickerson Associates</td>
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<td>18425 Burbank Blvd., Suite 404</td>
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<td>Tarzana, CA 91356 (818) 385 3600 ext 126</td>
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<td>TOTAL ENCLOSED: $___-------------------------------------</td>
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NOTE: if you would like to pay by Credit Card, please contact Hal Alvord at (818) 267-7629, so the payment can be run on the Square Device. (4% surcharge will be added for credit card transactions)

All proceeds from the tournament will benefit the ASPE Orange County and Los Angeles Chapters. Reservations will be confirmed by receipt of registration and sponsorship fees.
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 70-80 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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<th>WEIL Pump Co Inc</th>
<th>HOME PUMP TECHNOLOGY</th>
<th>SyncroFlo</th>
<th>PIONEER PUMP</th>
<th>OZONEX AquaPak™</th>
<th>Triple Clear Water Solutions</th>
<th>SPP PUMPS</th>
<th>ECOVIE</th>
<th>Carter</th>
<th>dp pumps</th>
<th>American WHEATLEY HVAC PRODUCTS</th>
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| Submersible, vertical, and dry pit sewage and sump pumps | Submersible and dry pit non-clog sewage, effluent and wastewater pumps | UL- and ETL-listed packaged variable and constant speed pumping systems | High performance self-priming and end suction centrifugal pumps | Non-chemical water treatment using ozone technologies | Packaged fire pump systems | Flows to 550 GPM, Heads to 1350 Ft., Temp to 285° F, Working Pressures to 600 PSI | HVAC specialties | Control panels, alarms | **ACCESSORY LINES:**
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| * • NSF 350 Certification | * • NSF/ANSI 61 Annex G certified | Patented electroabsorptive technology for water purification and filtration | * • Patented electroabsorptive technology for water purification and filtration | * • NSF 350 Certification |
| * • NSF 350 Certification | * • NSF/ANSI 61 Annex G certified | Submicron particulate, pathogen, trace pharmaceutical, & cellular debris removal | * • NSF/ANSI 61 Annex G certified | * • NSF/ANSI 61 Annex G certified |
| * • NSF 350 Certification | * • NSF/ANSI 61 Annex G certified | Much lower pressure drop, higher flow rates than comparable UF membranes | * • NSF/ANSI 61 Annex G certified | * • NSF/ANSI 61 Annex G certified |

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How about HAI?

At the first glance, HAI looks like my first 3 letters of my first name. Obviously, HAI has nothing to do with my name. HAI is an abbreviation of **Hospital Acquired Infection**.

This definition requires additional details. Let’s assume that a person is admitted into a hospital for treatment of a specific illness or for a specific procedure (operation). During his (her) stay in the Hospital, or immediately (few days) after discharge, the person develops another illness. This is a classic example of HAI.

Until recently it was widely accepted, that transmission of bacterium or virus to another person, was the fault of the hospital personnel (doctors, nurses, janitors, etc) who didn’t followed the basic rules of sanitation, required in hospitals or establishments where ill people are treated. Some of these basic rules are: wash their hands and wear gloves before they touch a new patient, wear protective scrubs and change them frequently, wear masks, use only new needles and disinfected tools, etc.

**Ever mutating bacteria**

We know by now, that bacteria have the following characteristics:

- Is a microscopic single cell organism
- Multiply rapidly, exponentially by asexual multiplication
- Mutates to adapt to new environmental conditions. (Mutant= organism with characteristics, different from the parents)
- Some species are detrimental to human or animal health, even though

- some species are necessary for our digestion and for our development.
- Some species grow wings and are transported in various locations by winds or moving air. Some other species have a propulsion “engine” on board, which allows them to move in the water, in any direction they will find more beneficial.
- Works in cooperation with other bacteria to protect themselves.
- No wonder that bacteria survived all earth cataclysmic events, for more than 3.5 billion ± few million years. Many other species disappeared or were decimated to almost extinction. But not the ever growing and mutating bacteria.

**Bacteria new tricks**

Recently, it was found that bacteria present in a drain pipe of a hospital lavatory, reached the lavatory strainer and jumped outside, on the lavatory surface. From there the bacteria was picked - up by the patient, who got ill.

A team of researchers from University of Virginia, was called and discovered this new case. They explained the procedure used by the bacteria, as follows: Initially the bacteria lived in the existing drain water of the trap. From there the bacteria colony grows inside drain pipe at a rate of about 1 inch per day, to reach the strainer. This takes about a week. (Plumbing Codes allow the trap to be located no more than 2 feet from the bottom of the fixture. In general this dimension is 6 inches or less.)

When reaches the strainer, bacteria is splattered around the lavatory, and even the counter top, where they are picked up by patients, and some will get ill. This is a typical case of HAI.

**Conclusion**

I am amazed by the tenacity and energy of these microorganisms to multiply, adapt to new conditions and survive, despite our extraordinary effort to stop them.

We should expect many other new surprises related to the development and activities of bacteria and viruses, and we certainly need more research in the field of microbial world.

---

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MEMBERSHIP REPORT
John Zagorski
V.P. Membership

ATTENTION ALL LOS ANGELES ASPE MEMBERS

WOW, I can’t remember ever announcing this many new members at one time! Please help me in welcoming the following new members: Steven Flores @ Flores Engineering as a Student member, Thomas Webb @ Viega as an Affiliate member, Ivan Baylon @ TK1SC as an Associate member, Galina Mitrofanova @ Syska as a Full member, John Stanley @ ANMAC Water Treatment Service as a Special member, Jose Novela @ Dawson Company as an Affiliate member, & Uday Kalavanchi @ Lewis Ross Associates as an Associate member. I hope to see you all at our next dinner meeting & Thank You All for choosing the Los Angeles Chapter for your memberships!

Wake Up and Smell the Coffee. Let me help you with your New Year’s resolution challenge. All current members will bring in 1 new member this year. Should you fail, I’m sure a fine will be levied, and if you succeed, an award may be coming your way!

ASPE needs your help in recruiting new members! I’m still running the same membership drive program. It’s simple, sponsor a new member, and bring them to one of our monthly dinner meetings with their application & payment, and the chapter will pay for both of your meals for that meeting. Let’s keep the momentum going!

Moving forward into 2017, the Los Angeles Board of Directors have decided to start giving new members a welcome gift. We have not decided on the gift yet however, I should have something more in next month’s newsletter. Film @ 11.

Should anyone need a current membership application, please do not hesitate to contact me as your VP Membership at jzagorski@mlsalesinc.com. You are also welcome to call me at 562-447-4561.

I will see you all at the April 5th dinner meeting @ Monterey Hill Restaurant in Monterey Park.

If you are an ASPE member, go to FACEBOOK and join the new ASPE Los Angeles Group!
https://www.facebook.com/groups/ASPELA/

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At 7:15pm, our sergeant at arms, the honorable Ronald J. Bradford, stepped up to the podium to levy the evening’s fines: $5 Alex Jimenez, $10 Roland Gutierrez, $5 Grundfos, $5 Bill of Daybreak, $5 Dan Perkins, $6 Jeff Atlas, $1 each to the eight ARUP engineers in attendance, $6 Brian Wright, $3 Brian Reel, $5 Roy of Takagi, $5 Leonardo Encarnacion, $2 Linda Deunay, $5 John Bianco.

Then Mr. John Koeller of Koeller & Company gave a wonderful presentation on the subject of ‘MaP® TESTING: 14 Years Old & Growing’. Many thanks to John!

Raffles were provided by the following:
- Chocolate bars by Spears
- Golf balls by See Water
- Wine and Starbucks by Delco Sales
- Wine by Signature Sales
- Whiskey by Symmons
- Movies by Weil Aquatronics
- Target gift card by Lubrizol
- Saki by Takagi
- Beer & wine by Specification Sales
- Paperweight by LADWP

The meeting concluded at around 9:30pm.

Behold The Big Bend - the incredible U-shaped New York skyscraper dubbed the ‘longest building in the world’

Described as the ‘longest building in the world’, the project’s concept drawings reveal a skyscraper reaching an apex then curving back down. And featuring an elevator system that can travel in curves, horizontally and in loops.

In a bid to work around the challenges of New York’s zoning laws, design studio Oio has imagined an innovative concept to straddle Billionaire’s Row on 57th Street.

The studio explained: ‘New York city’s zoning laws have created a peculiar set of tricks through which developers try to maximise their property’s height in order to infuse it with the prestige of a high rise structure. But what if we substituted height with length? What if our buildings were long instead of tall?

‘If we manage to bend our structure instead of bending the zoning rules of New York we would be able to create one of the most prestigious buildings in Manhattan. The longest building in the world.’

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Our chapter gained 5 new members last month. Wow!! We currently have 190 members. Our goal is to have over 200. Please bring a guest to our monthly chapter meetings so they can see how wonderful our chapter is and be given an application to join. If you bring a guest, let John Zagorski know so he can welcome them and answer any questions they may have so they can become a member.

Please join with me in welcoming new members: Uday Kalavanchi, John Stanley and Jose Novelo. As we mentioned last month, we will give an ASPE LA shirt to them as well as all other new members when they join.

The CPD exam registration is now closed. I want to wish those who are planning on taking the exam on April 6 and 7 the best of luck. Study hard so that the test seems easy. Don’t stress too much and make sure to just follow the codes and do not over-design, as we do in the real world.

This year’s 2017 Technical Symposium is in Montreal, Quebec, Canada, October 19-22. Don’t forget to check your passport expiration date to make sure it is valid and if needed, renew or obtain your passport so you can come.

I’d like to thank all of you who attended our last meeting. Make sure to attend this next month too. That’s all for now. See you at the April 5 chapter meeting.

Show off your design skills in ASPE publications ASPE Journal and Plumbing Engineer magazine are looking for plumbing system design case studies by members to publish in upcoming issues. Priority will be given to those that discuss innovative, nonproprietary design techniques. To submit your case study, contact gpienta@aspe.org.

Please don’t forget to attend, put on your calendar and be at the……..

Membership News:

Members are needed to help revise PEDH Volume 1 ASPE is looking for experts in the following topics to review and update chapters in Plumbing Engineering Design Handbook, Volume 1: Fundamentals of Plumbing Engineering: plumbing standards, cost estimation, corrosion, seismic protection of plumbing systems, energy and resource conservation, acoustics in plumbing, value engineering, ensuring high-quality plumbing designs, and building information modeling. The deadline for this project will be April 7. For more information or to volunteer, contact gpienta@aspe.org.
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