I would like to thank everyone for the great attendance at our meetings. We had 58 attendees with one new member. A new Board of Directors will be taking over the Chapter for 2017-2018. The new Board Members are as follows:

- President - Thura Zin CPD, GPD
- VP Technical – Vivian Enriquez CPD, FASPE
- VP Legislative – Kook Dean PE, CPD, GPD
- VP Membership – John Zagorski
- Treasurer – Hal Alvord, CPD, GPD
- Administrative Secretary – Christopher Yang, PE, CPD, CFPS
- Corresponding Secretary – Jeff Atlas
- AYP Liaison – Chiara Sulze

I want to thank all of our members for their hard work during the past year. Specially, for all the organizing committee members did for last year’s activities: The annual Fishing Trip; ASPE-LA Family Picnic; Dodger Game; Holiday Dinner/Banquet and Monte Carlo night; and annual Donald F. Dickerson Golf Tournament.

As all of our members and friends know, our Biennial LA/OC Technical Seminar and Product Show is Wednesday, August 16, 2017 at the Holiday Inn, 14299 Firestone Blvd., La Mirada, CA 90638. I like to invite all of our members. Come and meet with all 46 vendors at the product show. Because of the hard work of John, we have sold out 60 regular booths, 4 premium booths and 3 trailer spots. Our VP Tech, Vivian is also organizing the

continued on page 20
Technical & Social Calendar

AUG. 2, 2017  “PATHOGEN PREVENTION IN DOMESTIC WATER”  (SN #17-08)
SPEAKER:  MR. TIM KEANE
Consultant
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
SCHEDULE:  Seminar:  9:00AM-12:00PM  Product Show: 1:00PM-5:00PM
Cocktails & Raffle:  5:00PM-6:00PM
TOPICS & SPEAKERS:
Seminar #1:  LADBS WATER ORDINANCE; GRAY WATER SYSTEM; & SENATE BILL#7
(SN #17-09)
Speaker: Mr. Tim Allinson, P.E.
VP Engineering, Murray Co.
Seminar #2:  DO’S & DON’T’S OF COMMERCIAL KITCHE DESIGN
(SN #17-10)
Speaker: Mr. Damon Premer
Proj. Exec., All Area Plumbin
Seminar #3:  OSHPD REGULATIONS AND DO’S AND DON’TS FOR OSHPD WORK
(SN#17-11)
Speaker: Mr. Dave Mason, P.E.
Sr. Mech. Engr., OSHPD

SEPT. 13, 2017  “FIRE PUMP DESIGN & MEANS TO REDUCE WATER DURING FIRE FLOW TEST……FIND OUT HERE”  (SN #17-12)
SPEAKER:  MR. ROLAND GUTIERREZ
Daybreak Technologies, Inc.

SEPT. 16-2:00PM  TO SEPT. 17-NOON, 2017  ASPE-LA CHAPTER ANNUAL PICNIC
Arcadia Wilderness Park
Arcadia, CA

OCT. 04, 2017  “HORIZONTAL WET & CIRCUIT VENTING”  (SN #17-13)
SPEAKER:  MR. FADY MATTAR, P.E.
COO, JAS Pacific

NOV. 04, 2017  TBD - OPEN

NOV. 11, 2017  MONTE CARLO NIGHT (HOLIDAY PARTY)
Air Tel Plaza Hotel, Van Nuys

DEC. 12, 2017  “2017 LA PLUMBING CODE CHAPTERS 15, 16 & 16A - DEFINED”  (SN #17-14)
SPEAKER:  MR. DOMENICO BARBATO, P.E.
Chief of Mechanical Division
LA City of Los Angeles
The July 12, 2017 technical meeting was presented by Mr. Jeremy Brown, Senior Technical Reviewer – Plumbing Division for NSF International, and talked about “NSF/ANSI 61 – Third Party Certification & Standards”. On behalf of the ASPE-LA Board, we want to thank Mr. Brown for a very informative presentation.

Reservation for the Table Top is still open. Please let me know, via e-mail, if you are interested.

At the August 2 meeting, we will have Mr. Tim Keane, a Consultant & Proprietor of Legionella Risk Management, Inc. as our guest speaker. Please see the August flyer for what he will be touching on at his presentation and please plan on attending.

Please refer also on the August report for our Technical and Social Calendar, we have quite a line-up of good speakers, which will include our very own Mr. Roland Gutierrez who will be talking about Fire Pump design at the September meeting; Mr. Fady Mattar on Wet & Circuit Venting at the October meeting and Mr. Domenic Barabato at the December meeting who will talk about the 2017 Los Angeles Plumbing Code, Chapters 15, 16 & 16A – Defined. We are missing one speaker for the November 04 meeting, so if you are interested and know of anyone, please contact me.

Lastly, please do not forget to attend the “ASPE LA-OC Product Show and Technical Seminar on August 16, 2017, to be held at the Holiday Inn La Mirada. We have seminar in the morning that will start at 9:00AM until 12:00PM and the Product Show from 1:00PM – 6:00PM, with more than 60 vendors participating. Topics and speakers for the technical seminars are as follows:

1. Mr. Tim Allinson, who will speak on LADBS Water Ordinance; Gray Water System & Senate Bill #7;
2. Mr. Damon Premer, who will speak on Do’s & Don’t’s of Commercial Kitchen Design; and
3. Mr. Dave Mason, who will speak on OSHPD Regulations and Do’s and Don’ts for OSHPD Work.

See you all at the ASPE-LA Meeting on August 2, 2017 and at the Product Show & Technical Seminar on August 16, 2017.

Latest news from ASPE Pipeline, Vol. 10, No. 14, July 06, 2017: New at the 2017 ASPE Technical Symposium! This year we are introducing a few new features as part of the 2017 ASPE Technical Symposium Technical Education Program. First, our full-day Intermediate Plumbing System Design Workshop will teach attendees how to design systems commonly found in commercial kitchens, such as sanitary waste and vent, domestic water, and natural gas. Also, we are offering two tours of the Jean R. Marcotte wastewater treatment plant, the largest-capacity wastewater treatment plant in the world. Both options offer the same amount of CEUs for participating as if you had taken technical sessions during the same time. Pre-registration is required by September 4 and space is limited, so go to 2017tech.aspe.org to sign up now.

2017 CPDT Exam is being held October 5 and 6
To help candidates prepare for the Certified Plumbing Design Technician (CPDT) Exam, we have developed the CPDT Study Guide, which is available as a free download on aspe.org. The CPDT program recognizes young plumbing system designers who excel at the technician level, and registration is now open for the 2017 Exam at aspe.org/CPDT-exam.

continued on page 11
2017 L.A. ASPE
OVERNIGHT PICNIC

Park Entry: 2pm
Games: 3-4pm
Lunch: 4pm
Raffle/Giveaways: 5pm

Ice Cream!
Fire Grilled Beef, Turkey,
And Veggie Burgers!
Hot Wings & Hot Dogs!

FUN FOR THE WHOLE FAMILY!
September 16-17th
Arrival: Saturday, 2pm
Departure: Sunday, 12pm

Location
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david@weilaquatronics.com
(RSVP Required for RV’s)

For more information call David Kelly at 626-384-8969
The City of Pasadena Water and Power Laundry to Landscape (L2L) Program Voucher.

The City of Pasadena L2L Grey Water Program Voucher for $160. The voucher may be redeemed at: The Landscape Warehouse, 1673 E. Walnut St., Pasadena, Ca 91106. Phone: 626 792-3319.

The L2L grey water system will not require a permit to be installed in Pasadena. Additional information is available at: www.cityofpasadena.net/waterandpower/greywater/.

The next Free L2L Greywater Workshop is scheduled for Saturday, August 12, 2017. The time is 9 AM to 11 AM at Villa Parke Community Center, 363 E. Villa St, Pasadena 91101. Space is limited and registration is required. Sign in begins at 8:30 AM.

A neutron walked into a bar and asked, “How much for a drink?”
The bartender replied, “For you, no charge.”

Why did the engineers cross the road?
Because they looked in the file and that’s what they did last year

What did one quantum physicist say when he wanted to fight another quantum physicist?
Let me atom

Where does bad light end up?
In a prism.

What did the male magnet say to the female magnet?
From your backside, I thought you were repulsive. However, after seeing you from the front, I find you rather attractive.
General meeting was called to order by President Thura Zin at 7:00pm at which time the pledge of allegiance was lead by John Bianco of Curb-O-Let.

Past Presidents in attendance were announced. We had among us, Ed Saltzberg, Kook Dean, John Deuney, and Hal Alvord.

Guests to our meeting included Virgil Shields and Brett Archer. Self introductions followed.

Thura announced that the product show was completely sold out! Jeff Atlas of Delco Sales announced the Monte Carlo/Casino Night/Holiday Party is to take place on November 11, 2017 at the Air Tel Plaza Hotel in Van Nuys, CA.

Ira Schummer was then called to the podium to levy fines which he did with poise and great skill. Among those fined were Jeff Atlas, Nick Ekdahl, Roland Gutierrez, Jeremy Busch, Roy Hotta and all of the absent board members!

We had a total of 58 in attendance.

Thura announced that the fee for dinner was going to be increased at a later date and the details of which will be forthcoming at a future meeting.

Thura then introduce the evening's speaker, Mr. Jeremy Brown, Senior Technical Reviewer- Plumbing Division NSF International. Mr. Brown went on to present his subject to the delight and enlightenment of those in attendance. Thank you Jeremy Brown for your fine presentation.

Many generously donated prizes were then raffled off and we had many lucky winners of some great stuff!

The meeting was then adjourned and everybody split.
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https://www.facebook.com/groups/ASPELA/

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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Continued from page 3

Two new sponsors join the 2017 ASPE Technical Symposium Product Show
We are pleased to announce that Engineered Solutions Canada and Morris Lee Canada, both part of the Morris Group International family of companies, will be exhibiting at the 2017 ASPE Technical Symposium Product Show as Friend Sponsors. Registration for the Technical Symposium is available at 2017tech.aspe.org.

Save the date: water reuse webinar is being held August 16
"Water Reuse, Technically Speaking" will teach attendees the critical steps to successfully integrate a rain/stormwater, graywater, and black water recycling scheme, as well as how regulations inform system design. This one-hour contact program at 2 p.m. EDT awards 0.1 CEU or 1.0 PDH, and registration is open at aspe.org/WaterReuseWebinar.

New Chapter Officer tools are now available
On our Chapter Officers Resource Page, you now can find brochures on How to Create a Chapter Ambassador Program and How to Host an ASPE Convention/Symposium. A Chapter Ambassador Program is a great way to welcome new members to your Chapter and continually reinforce the benefits of membership, and the new brochure will help you implement a program in your Chapter.

IAPMO issues an amendment to the 2015 UPC
TIA UPC-004-15 revises some values in UPC Table 501.1(1) regarding water heater first-hour ratings. A proposed amendment on new language for Section 710.6: Backwater Valves was rejected.

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ATTENTION ALL LOS ANGELES ASPE MEMBERS

Please help me in welcoming the following new members. Alan Elmont with AMPAM as an Affiliate member, Benjamin Kampen with HTS Equipment as an Affiliate member, & Melvin Pao with Murray Company as an Affiliate member! Welcome to all & I hope to see you all at our next dinner meeting. Thank You All for choosing the Los Angeles Chapter for your memberships!

Here’s the latest & greatest membership deal: with a 2 year commitment, all new members will receive 4 free dinner meetings! Upon joining for the first year, you will receive 2 free dinner meetings & when you renew for the 2nd year, you will then get 2 more free dinner meetings! Sponsors of new members will also continue to receive a free dinner meeting when you bring the new member to the meeting with their completed application & payment.

Wake Up and Smell the Coffee. Let me help you with our Membership Drive 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!

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 August 2nd dinner meeting @ Monterey Hill Restaurant in Monterey Park.
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Sewer systems short history.

Following the development of sanitation from ancient period to today’s sanitation, we may conclude that a gradual but substantial decrease in importance was observed in medieval times compared with ancient times.

The answer to this question is very complex and is explained in part by considering few factors which are related with the number of living population and location in different stages of civilization.

Civilization= social organization of a high order, advanced in social relations, science and arts.

Uninformed persons, even in our profession, talk about “modern sanitation”, as something recently developed. But if you examine the history, sanitation is far from a new discovery.

It is true that development of sanitation progressed very slowly, if at all, in some 6000 years.

This opinion is a small and succinct history, which will follow the development of sanitation, to understand what really happened.

The ancient Mesopotamian empires of Assyria and Babylonia, located near present Baghdad, are places dated about 4500 BC, where it was found great advances in civilization. People living in that time, developed agriculture, domesticated animals and start living in civilized cities, with accommodations as running water and collecting sewage. Recent archeological excavations discovered considerable important information. The art of sanitation developed in 2550 BC, might sometimes, shame many present towns of similar size.

Some of these pipes and drains are still working after 4000 years. Obviously this is an excellent example of a good products and good craftsmanship.

Similar civilizations are “Indus civilization” in India, dated about 2550 BC and “Minoans Civilization” dated about 3000 BC in the Island of Crete in the Aegan Sea. Both of these civilizations developed majestic palaces and displayed considerable understanding of hydraulics and water flow. Water was carried in terra-cotta pipes and sewage channels were built from stones.

Indoor plumbing was discovered not only in palaces, but also in housing for working population.

Roman period.

It is known that Roman Empire (400 BC - 450 AD) was a period of great development of civilization in many fields.

Romans build in 200 BC extensive aqueducts, which are still standing, to bring water from the distant mountains to the cities. Also they build sewers to drain wasted water and rain water.

When a new city was designed, the first construction was the municipal bath and latrines. The most famous bath is “The Bath of Caracalla” built in Rome during 212-217 AD. The bath complex consist of large, spacious buildings with hot pools, and cold pools, places to relax, has latrines, is heated with warm air, circulating under floor and in double walls. They had to install 2,000 tons of material every day, for 6 years, to complete this complex. Next to the bath building are separate buildings for libraries, meetings and prayers.

Water was supplied from aqueducts and distributed with lead pipes, which are still working after over 2000 years. (Nobody knows what was the guarantee offered by the Contractor!). Our present water pipes, last an average of 50 - 70 years, and plastic pipes even much less.

continued on page 26
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3 seminars. Currently, we have 74 people registered for the seminars. If you are interested in attending and haven’t registered yet, contact Vivian. See more details in our VP tech report.

Thanks to our speaker ASPE member, Mr. Jeremy Brown for his presentation regarding NSF 61. If you have any suggestions for future speakers or things we can do better, please send an email or call Vivian or one of your board members. We would love to hear from you.

If you have an idea for a group activity to bring our ASPE families together, please let myself or any of our Board members know. Hey, WOA members! ASPE LA Board is preparing something for you. Make sure to attend our next chapter meeting.

Our holiday party is fast approaching and Jeff is working on that. It will be the same as in 2016: Monte Carlo Night. So prepare for fun. This time we have a new location. Please see the flyer in this newsletter.

If you know of any ASPE LA Members who might be suffering unexpected hardships that strain their relationships, careers or finances, please contact me. If you or an immediate family member is in need of assistance with your membership, please send the details to me.

Our membership is back to 195 per the Society’s report of July. Well done, John.

Don’t forget to register to attend the 2017 Technical Symposium in Montreal, QC, Canada October 19-22. The technical sessions are already on the Society’s website http://2017tech.aspe.org/. Stay tuned for location and time.

Until next month.
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The period between 400 - 800 AD is a period of migration of tribes (barbarians) from Asia, and ended with the collapse of Western Roman empire after Goths conquered Rome in 476 AD.

There are numerous other ancient civilizations who developed sanitation and fresh water facilities for their population. The civilization listed above are examples of few of them.

**Dark Ages.**

This period between 500 – 1000 AD classified as “Dark Ages” is very confusing because written history of this period is very limited. The period is characterized by religious struggle and catholic corruption. Sanitation, availability of safe potable water, removal of human excrements, and bathing were totally ignored. It is not a surprise that 1/3 of the population of Europe was killed by water born illnesses.

**Appears that all the knowledge of ancestors living 2000 – 3000 years earlier was forgotten or lost.**

**Renaissance.**

Renaissance (rebirth) followed Dark Ages, after 1000 AD, and has been characterized by a surge in classical values, discoveries, inventions, as paper and printing, etc. Also new approach was imposed by municipalities, regarding sanitation and availability of safe drinking water offered to population living in close quarters of new developed cities.

Industrial revolution started in England and Germany in 1700 - 1800 and a large section of population moved from rural areas to cities, close to large factories. This time is characterized by mechanization of agriculture and textile manufacturing, application of power including ships and railroads that affected social, economic and cultural conditions of population. Sewers were build under streets and indoor plumbing start to become more common for working class. However this process developed slowly, because of the cost, and absence of information about importance of sanitation and availability of non-contaminated drinking water.

Later, in 1890 AD, the work of Dr. Louis Pasteur and Dr. Koch open the eyes of “scientific gurus” of the time, that all diseases are the result of bacteria, viruses and other micro organisms, and are not God punishment for our sins. 1900 AD can be considered the birth of a new medical specialty: Microbiology.

Today there are still millions of people in underdeveloped countries, who do not benefit of safe fresh water or proper sanitation facilities. In a recent article discussing sanitation and water situation in several South African countries, reports: “The unrelenting struggle against sanitation and water poverty continues to be a daily struggle for majority of people living in South Africa. From 170 million people, almost 2/3 have no access to basic sanitation, and over 100 million have no access to clean safe drinking water”. That explains why each year, about 120,000 children under age of 5, die from diarrhea and other water borne illnesses.

From recent surveys, it is estimated that approximately 2.3 billion people lack access to proper sanitation, and from this large group of people, 1.1 billion practice open defecation. It is no surprise that under these conditions, over 500,000 children die every year from diarrhea caused by polluted water and poor sanitation.

One solution to this global crisis, is the new low cost toilet pan, named SaTo (Safe Toilet) that, utilizes a simple plastic trap door, to close off pit latrines made of concrete. This reduces disease transmission from flying insects, that come in contact with human waste. The original SaTo, was the first step in developing a full line of bathroom products for people living far away from water and sewer infrastructures.

American Standard developed this toilet pan, supported by a grant from Bill and Melinda Gates Foundation. More than 1 million self contained toilets are currently in use in 14 countries. The target is, to provide access to sanitation for 100 million people by year 2020.

Currently field testing is underway for three new models of SaTo designed to be used where water is available. The user will rinse the pan using a small amount of water.

There are also, people who had plenty of hot and cold water and sanitation facilities, who don’t follow elementary rules of hygiene, as washing often their hands. More education of population – at – large is in order.

As you can see, from this concise opinion, sanitation is not a new discovery, and in fact, developed very slowly during past 6000 years.