March 2018

PRESIDENT’S REPORT
Thura Zin, CPD, GPD
President

Have you already indicated you want to participate in the ASPE LA & OC combined 2018 Donald F Dickerson ASPE Golf Tournament on Friday, May 11, 2018? If you have, great! If you haven’t yet, grab a flyer, fill it out and send it back to John. The tournament will be at the same location as last year, Brookside Golf and Country Club in Pasadena. We will be using both fields so prepare for this. Check out the flyer on our web site. Also, if anyone wants to be a sponsor, please contact the golf committee chair, John. The tournament promises to be fun and exciting.

Fifty two people attended last month’s meeting. The topic was very interesting especially for those who do not have design experience. I’d like to thank our speaker, Peter Kraut. His presentation was very useful to our chapter members.

I’d like to set some chapter goals. One very important goal is membership growth. As per February’s report, we have 215 members. We have increased 15% over last year and 18% from 2016. I’d like to set a new goal for an additional 10% this year. Due to the construction growth in the LA area, there are new plumbing engineers in town. We need to reach out to them to join our chapter. Our second goal is to maintain our existing members. Each year, we lose 10 to 15 members to various reasons (move-outs, deaths, retirement, etc.). We need to find a way to reach those former members that we can reach and bring them back to our chapter. If they have left due to the financial reasons, please let a Board member know and we’ll try to

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2018 TECHNICAL & SOCIAL CALENDAR

MARCH 7, 2018
“COPPER PIPE - BENEFITS & CONCERNS BY MOST PLUMBING ENGINEERS”
(SN #18-03)
SPEAKER: MR. HAROLD MORET
    Project Manager & Piping Applications
    Specialist, CDA

APRIL 4, 2018
“MODERN DOMESTIC WATER PRESSURE BOOSTING SYSTEMS”
(SN #18-04)
SPEAKER: MR. ROBERT GALAVIZ
    Business Development Group
    Dawson Company

“ASPE-LA CHAPTER ELECTION”
Contact Cory Nakanishi, Election Chairperson, at
cnakanishi@murraycompany.com if you are interested in running for any position.

May 2, 2018
“LEGIONELLA SOLUTIONS”
(SN #18-05)
SPEAKER: MR. CRAIG BOYCE
    Kemper Hygiene Systems (KHS)

MAY 11, 2018
“THE ANNUAL DONALD F. DICKERSON ASPE GOLF TOURNAMENT” – See Flyer for Information
    Brookside Golf & Country Club, Pasadena, CA 91103

JUNE 01-03, 2018
“ASPE REGION 4 – PRESIDENTS MEETING”
LOCATION: Marriot Hotel, Marina Del Rey, CA

JUNE 06, 2018
“VACUUM & NITROGEN TECHNOLOGY FOR CORROSION PREVENTION IN FIRE SPRINKLER SYSTEM”
(SN #18-06)
SPEAKER: MR. GREGG VLAHAKIS
    Business Development, The Viking Corp.
The February 7, 2018 technical meeting, was presented by Mr. Peter Kraut, as guest speaker. His presentation was on “Splash Pads”, which focuses on the hydraulics, blend of entertainment, access, safety and engineering, and was very well received by the attendees. It was a very informative presentation. So on behalf of the ASPE-LA Board, we want to thank Mr. Kraut.

Our Technical Calendar for 2018 is starting to fill-up, we have quite a line-up of good speakers and topics up to June 2018, so if anyone wants to have a specific topic, or knows of a good speaker, please don’t hesitate to contact me or send an e-mail to any of the Board of Directors. Also available for 2018 is the schedule for a Table Top. Anyone interested in doing the Table Top on any month of 2018, please contact me via e-mail or any of the board members.

For the March 07, 2018 meeting, we will have non other than Mr. Harold Moret, Project Manager & Applications Specialist of Copper Development Association, as guest speaker. He will be presenting "Copper Pipe – Benefits & Concerns by Most Plumbing Engineers". Attendees will be able to, recognize the design advantages of various copper no-flame, alternate joining technologies, Identify system design and installation limitations of various copper no-flame technologies, and compare no-flame alternate joining technologies with existing solder/brazed copper tube and fitting design parameters. Don’t miss this opportunity to learn all of the above. Please plan on attending.

Thanks to all the attendees for the wonderful reception accorded to me when I performed the work of President and VP-Technical at the meeting. As acting president, I was able to propose to the membership, and everyone agreed, that all penalty fines will be saved and set aside for the continuation of Women of ASPE’s (WOA) 2017 project of donating blankets to the homeless in December 2018. The ASPE-LA’s Liason to WOA is non other than Linda Deunay of Enviro Product West. And because of this, we want to thank John Bianco for donating $100.00 towards our “2018 Blanket Drive”. We will report every month on the progress of this drive. Thanks also for those who paid their fines.

See you all at the ASPE-LA Meeting on March 7, 2018.

And for the future events that plumbing engineers should be aware of………………

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Legislation 101
By Rosalie Thompson

Government affairs specialists know the legislative process like the back of their hand. For the rest of us, here’s what it looks like in California. IN SACRAMENTO IT CAN BE EASY TO SLIP INTO A VIRTUAL reality and believe that what is happening inside the Capitol is of great interest to every Californian. After all, activity in the Capitol is intended to be an open, public process that elevates beneficial public policy – so, in essence, everyone could be paying attention and care about the debate and decisions. But the reality is that we all have busy lives, with personal and professional obligations, and often what occurs within the walls of the Capitol may seem to have little resemblance or impact to what is happening in most people’s day-to-day lives. The unfortunate result can be that the legislative process results in important changes with little or no public involvement.

Throughout my tenure as a Capitol staffer, and in my current position as a legislative representative for Metropolitan Water District of Southern California, I am often asked, “How can we get involved?” My answer has always been, “Become familiar with the legislative process” so you can understand how a bill is introduced and track its progress as it moves through from one house to another. With the Internet and online legislative tracking websites, doing that is easier than ever. Both the California Senate and the Assembly have websites that house a wealth of information including details on legislators, legislative deadlines, committee rosters, and sponsored bills. See www.assembly.ca.gov and www.senate.ca.gov.

If you are interested in following bills directly, you can use www.leginfo.legislature.ca.gov to search by topics, see the actual text, and check the status of individual bills. With knowledge comes power and the ability to productively engage in issues that are of direct interest to you, your community, your schools and your business.

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Vivian Enriquez stepped in for Thura Zin and brought the meeting to order. Past presidents in attendance were Cory Nakanishi, Hal Alvord, Kook Dean, and Vivian Enriquez. For those interested in certain topics – contact Vivian. Region 4 meeting was discussed (see board meeting minutes). All proceeds from fines are to go to WOA charity.

Linda Dunay spoke on the WOA charity. 81 blankets were donated to LA Mission. The target for upcoming donation to be 162 blankets. John Bianco from Curb-o-Let donated $100 toward next donation.

John Bianco represents Region 4 on the nominating committee for National Board of ASPE. If anyone is interested contact him for additional information. Criteria for LA chapter Board positions for 2019 was brought up to the membership. Thura to provide more information.


The board meeting was held on Wednesday February 7th. Kook Dean, Hal Alvord, Christopher Yang, John Zagorski, Vivian Enriquez, and Jeff Atlas were in attendance. Virgil Shields from LA Trade Tech attended the meeting to discuss how to engage students with ASPE. A list of ideas to help market to high school students, community college, etc. was requested to be provided by the board. Until a plan is finalized, it was suggested a virtual meeting to introduce plumbing to students be considered. Kook has a database of California design references and is willing to share to the chapter. The board is to review.

Region 4 President Meeting will be held on June 1 to 3rd. It will be held at Marriot in Marina Del Ray. Thura is to provide more information. Thura to provide more information on the delegates for upcoming convention. Criteria for delegates to be finalized.

Kook proposes Virgil Shields 50% discount for meetings due to his marketing for ASPE. Also proposed, free of charge meals for the 2nd meeting attended by students. Students to be charged at regular price after. Free membership to be provided to students after 6 months of meeting attendance. To be voted on next month.

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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<tr>
<td>Xerxes</td>
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<td>Oil Water Separators &amp; Storm Water Tanks</td>
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<td>Grease Guardian</td>
<td>Point of Source Grease Removal Device</td>
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<td>FogEnforcer</td>
<td>Ultra High Super Capacity Grease Interceptors</td>
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## Pumps, Pump Systems & Controls

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<td>Cutter Pumps Submersible &amp; Vertical Column</td>
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## Accessories

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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 43 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

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The Women of ASPE are excited to introduce ASPE’s new Mentoring Program! This program, which is available to all members of the Society, has been designed to connect ASPE members who have a particular skill set (mentor) with individuals (mentee) who are searching to acquire the same skills to develop and make progress toward their personal and professional goals.

Who Is a Mentor?
A mentor is someone who can help the mentee develop skills for success and long-range career planning, is able to be a good listener, is willing to share experiences and views, is willing to commit time and effort, provides an “open door” to questions and problems, points out both strengths and opportunities for improvement, and has a vested interest in the growth and development of their mentee.

Benefits to the mentor:
- Satisfaction in helping someone mature, progress, and achieve goals
- Meeting and sharing experiences with other mentors
- Personal ongoing support to help the mentee succeed
- Personal fulfillment through contribution to the Society and the individual

Who Is a Mentee?
Having a mentor can contribute to a successful and satisfying career. Without a mentor, that learning occurs mostly through trial and error. With a mentor, even experienced professionals can benefit from the experiences and expertise of someone who has withstood the trial and can help the mentee avoid the mistakes. Similarly, those new to the industry will discover that being a mentee shortens the learning curve for acquiring the skills and knowledge most critical to a fruitful career.

Benefits to the mentee:
- Discover new talents about yourself
- Career satisfaction
- Expand your personal network
- Maximize your strengths

aspe.org/aspe-mentoring-program
Legionella and Plumbing systems.

Legionella Pneumophila is a serious respiratory disease caused by a bacteria called Legionella. This bacteria is very diversified and can multiply exponentially in many areas of building plumbing water systems: hot and cold potable water, storage tanks, water heaters, expansion tanks, cooling towers, dead ends of piping systems, water filters, aerators, ice machines, hot tubs, ornamental fountains, occasional used fixtures, etc. Center for the Disease Control (CDC) reports that about 5,000 cases of Legionella disease are reported each year in USA. Some of them are fatal, especially affecting older persons with immune deficiency.

EXAMPLES OF RECENT OUTBREAKS OF LEGIONELLA DISEASE.

Ohio prison:
An Ohio prison restricted showering, distributed bottle water and installed filters on faucets, after two inmates were diagnosed with Legionella disease.

Memphis Hotel:
Nine cases of Legionella disease have been identified on guests who stayed at the hotel. Appears that the disease was acquired by guests who used the pool and/or hot tubs.

Flushing New York:
Fifteen cases of Legionella disease were identified. NYC Health Department investigators, tested all the cooling towers and ordered disinfection of the ones in which Legionella was found.

New York City assisted living facility:
Five residents were diagnosed with Legionella disease. All five recovered without hospitalization. Additional chemicals were added to cooling towers.

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For more information, visit aspe.org/woa
ATTENTION ALL LOS ANGELES ASPE MEMBERS

Happy New Year Everybody! Please help me in welcoming the following new members: Chantrell Iglesias as an Associate Member, Brett Barron @ Daybreak Technologies as a Full Member, John Trauger @ Rheem as an Affiliate Member, Artin Haroutunian @ P2S Engineers as an Associate Member, & Aaron Collins as a Full Member. On behalf of the Los Angeles ASPE Board of Directors I welcome all of you as new members! 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 February 4th dinner meeting @ Monterey Hill Restaurant in Monterey Park, Same Bat Time, Same Bat Channel!
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Plyscraper City: Tokyo to build 350m tower made of wood

The $5.6bn cost of the 70-storey W350 Project is expected to be twice that of a conventional building.

A skyscraper set to be built in Tokyo will become the world’s tallest to be made of wood.

The Japanese wood products company Sumitomo Forestry Co is proposing to build a 350 metre (1,148ft), 70-floor tower to commemorate its 350th anniversary in 2041.

Japan’s government has long advertised the advantages of wooden buildings, and in 2010 passed a law requiring it be used for all public buildings of three stories or fewer.

Sumitomo Forestry said the new building, known as the W350 Project, was an example of “urban development that is kind for humans”, with more high-rise architecture made of wood and covered with greenery “making over cities as forests”.

The new building will be predominantly wooden, with just 10% steel. Its internal framework of columns, beams and braces - made of a hybrid of the two materials - will take account of Japan’s high rate of seismic activity. The Tokyo-based architecture firm Nikken Sekkei contributed to the design. The interior structure, with 455,000 sq m of floor space, will be made entirely of wood. Renderings show light-filled apartments, offices and shops.

Balconies on all four sides of the building’s exterior will facilitate the spread of greenery from the ground to the top floors, contributing to urban biodiversity. It is estimated that it will take 185,000 cubic metres of wood to complete the entire structure.

The total construction costs are expected to be approximately ¥600bn (£4.02bn), almost double that of a conventional high-rise building. But Sumitomo Forestry Co said in a press release the total would probably be brought down by technological advances between now and the 2041 scheduled completion date.

Around the world, wooden skyscrapers are reaching higher. At 244m (800ft), the 80-storey River Beech Tower on the bank of the Chicago River is among the tallest of those proposed.

A 53m (174ft) student residence in Vancouver, completed at the end of last year, is reportedly the tallest timber skyscraper in the world, though it is unlikely to hold on to the title for long.

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Woodford Manufacturing:
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World wide:
Many other outbreaks of Legionella disease are reported from almost any country in the world.

Note: These examples of Legionella outbreaks are excerpts from “Legionella eNews” a free newsletter available at www.hcinfo.com.

Municipal water supplied in USA, by various purveyors as “potable water” contains, after all the treatments, some residual bacteria and various dissolved minerals, allowed based upon definition of EPA of “potable water”. To prevent multiplication of bacteria in municipal water piping and building piping systems, small amount of chlorine or chloramines is added. Unfortunately these added chemicals are unstable, and their effect is reduced, especially when the water is heated. The result is that Legionella is multiplying in plumbing potable water piping systems. This will affect people who will inhale during showering, small droplets of this polluted water.

WMP (Water management Plan). ANSI/ASHRAE Standard 188-2015 requires that all commercial buildings, except single family, shall have a WMP. The Standard covers in detail the type of records and tests, the owner should keep. But doesn’t give any construction suggestions on how to install plumbing piping system to allow the owner to perform all tests and consequent disinfections required.

On your next plumbing project for a multi story building, I suggest you read my articles published in ASPELA News of March 2017 stating on page 11, and article published in ASPELA News of December 2017 starting on page 11. You will find a lot of information regarding bacteria in general, and Legionella bacteria in detail.

I believe that this complex task will require a new approach for designing potable water systems. ASPE should organize a group of engineers/designers, contractors, and manufacturers and a microbiologist, and offer a new design approach for plumbing systems design, taking in consideration new criteria.

宑
ASPE NEWS

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help them out. The third goal is to reach out to schools and universities and invite students to our meetings with no cost and let them know who we are.

The election of the Board of Directors will be held in our April meeting. If you are interested in running for any position on the Board, please let me and Cory know. Also, before you commit to running for a position, you should review the Chapter Officer Training Videos at https://aspe.org/ChapterOfficerTrainingVideos so you will be able to perform in the position you want. All positions are required to comply with the Bylaw qualifications and requirements. Might I suggest reviewing the Society Bylaw and Society P & O (Policy & Operations) Manual too. If you need help, let me know; I’ll guide you.

The three main positions of the Board of Directors (President, VP Technical, Treasurer) will require past Board of Director experience. VP Legislative candidates shall be responsible for all activities pertaining to Codes or Ordinances as they pertain to this Chapter.

ASPE 2018 Convention and Expo will be held on September 28 through October 3, 2018 in the Georgia World Congress Center, Atlanta, GA. Here is the link for Convention Web Site: http://expo.aspe.org/ASPE2018/Public/Enter.aspx. If you are planning to take Green Plumbing Design certification, the class will start on Thursday September 27.

If you think some of our Bylaws need to be revised, please let us know so we can discuss those changes together. Already one member is suggesting changing life-member requirement.

I’d like to thank our LA Chapter WOA chair Linda Deunay. The WOA Blanket Drive donated 81 blankets to the LA Mission for the homeless.

A new CPD exam will be held on April 5 and 6. Registration is now open. If you need help, there is a class in OC chapter, before every monthly meeting. Registration will close at March 22, 2018.

Thanks to all of you for helping to keep our chapter running and to those who regularly attend the monthly meetings. Still, some regular monthly attendees are not ASPE members yet. I’d like to request any nonmember to join and support our chapter. If you have anything which is preventing you from joining ASPE, please contact me and discuss why you have not joined. Our Board is willing to help with that.

If you have any ideas for a group activity to bring our ASPE families together, please let me or our Board members know. That’s all for now. See you all at our next meeting.
Save the Date - Registration Opens in April!
The 2018 ASPE Convention & Expo is the only event designed to enhance the professional development, technical education, and career growth of plumbing engineering professionals. Mark September 28 - October 3 in your calendar to attend the 2018 ASPE Convention & Expo so you can:

- Learn about the latest plumbing products, services, and design techniques from more than 300 exhibiting manufacturers and suppliers
- Earn CEUs towards your certifications just for walking the show floor
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- Ensure the safety, security, and functionality of new buildings through educational sessions
- Resolve your challenges directly from technical experts with innovative tips and solutions
- Discover new ways to save time and money in operational life cycle costs

Latest news: ASPE Pipeline, Vol. 11, No. 4, Feb. 15, 2018: Sign up for our CPD Review Webinar Series to help prepare for this year's exam
This four-part series will bring you up to speed on the topics covered in the exam and includes practice questions. You can view the webinars at your leisure as part of your comprehensive exam prep. This year's exam is being held on April 5 and 6, and registration closes on March 22. You can sign up for the webinar series and register for the exam at aspe.org/CPD.

CPDs: the next recertification deadline is April 30, 2018
If you aren't sure if your recertification is due this year, go to our CPD directory, which lists all CPDs with their CPD number, exam date, and recertification date. Do you need a few more CEUs to fulfill the requirements? Check out our Read, Learn, Earn program or view an archived webinar. To find out how many ASPE CEUs you've earned in the last two years, visit our CEU Center.

2018 UPC and UMC are now available
Significant changes to the Uniform Plumbing Code include new provisions for sound transmission, engineered storm drainage systems, and trap seal primers for potable water supplies, as well as new pressure testing for hot and cold water supply systems, among other revisions.

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We want YOU to join our group!

ASPE Young Professionals (AYP) is dedicated to the needs of plumbing engineers and designers 35 years old and younger. Your local ASPE Chapter has been busy organizing exciting opportunities designed to help you excel in your career, including:

» Partnerships with other associations
» Social and networking events
» Educational offerings
» Mentoring programs
» And more!

To join the ASPE Young Professionals special-interest group, email prosenberg@aspe.org. For more information, visit www.aspe.org/ayp.
ASPE’s Certified in Plumbing Design (CPD) program is the only international certification program for plumbing system engineers. The CPD designation provides formal recognition of outstanding professionals with advanced skills in the design and specification of plumbing systems. Visit aspe.org/CPDExam for eligibility requirements and to register.

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<td>Washing Machine &amp; Ice Maker boxes, Dearborn tubular &amp; ADA Trap Covers</td>
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California has a bi-cameral Legislature. The two independent houses within the legislative branch are responsible for introducing bills, holding public committee hearings, and observing the various rules and requirements for a public legislative process. The Assembly, often referred to as the “lower house,” is comprised of 80 state Assembly members who are elected every two years by voters in geographic districts that include nearly 490,000 constituents. The Senate, or “upper house,” has 40 state senators who are elected by voters from districts that represent more than 900,000 constituents. The Senate and Assembly districts inevitably overlap, and are intended to ensure that each California resident has one state Assembly member and one state senator as their representatives in the State Capitol.

Inspiration for a legislative idea can come from multiple sources. Sometimes a constituent shares an idea or experience with a legislator. Other times, it is a response to a news headline or event. Or it can be research from a legislator, legislative staffer, or special interest group.

After a legislator introduces a bill, it is assigned to at least one policy committee based on what the bill is intending to achieve or change. If a bill has any impact on the state budget, it is identified as a “fiscal” bill and must also be heard in the Appropriations Committee and assessed on cost implications or benefits. If the author is successful in justifying the use of state dollars, the bill then moves to the floor for a vote of all the members of that house. The process is repeated in the second house.

When a bill successfully moves out of both the Senate and Assembly, the governor has 12 days to either sign or veto a bill. This year, Governor Brown signed 859 of the 977 bills that were approved by the Legislature into law and vetoed 118.

The legislative process is intended to be a public process. It’s an opportunity for members of the public to engage and have a meaningful impact on important policies that affect them and their fellow Californians. The Legislature is reactive to public response and interest. If you have an interest in an ongoing issue or in a particular piece of legislation that is pending, you should meet with your respective Assembly member and senator. Developing a relationship or familiarity with the legislative office is key to influence. It may affect how legislation is drawn and in developing subsequent support. The best approach is to position yourself as a resource. An in-person meeting with the appropriate representative or his/her staff is best. Letters and calls also have weight. You want to include information about how the issue impacts you or your organization directly, including financial ramifications and impacts. Sending a letter or email to a committee consultant prior to a bill hearing can also be helpful.

As a member of CA-NV AWWA, you can also help shape and contribute to the Section’s perspectives on legislation that impacts the water community. If you would like more information on the Section’s Government Affairs Committee, please contact me at rthompson@mwdh2o.com.

Rosalie Thompson is an in-house state legislative representative for the Metropolitan Water District of Southern California. She served as a legislative staffer in the State Capitol for 13 years and is currently chair of CA-NV AWWA’s Government Affairs Committee.
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