Hello ASCE Members,

The San Bernardino/Riverside Counties branch has a lot going on this fall. We hope that you are watching the calendar for upcoming events. We have a lot planned before the holiday season.

Our 5th annual scholarship golf tournament happened on October 18th, and it was our biggest tournament ever. We were glad to see so many people come out to support the next generation of Civil Engineers and enjoy a day of golf with our piers. A huge thanks goes out to Jeff Meiter with Valued Engineering and John Thompson with IMEG for taking lead to organize the event. They along with our Younger Member Forum and student member volunteers contributed countless hours to help put the event together. And we couldn’t do it without the sponsorship and contributions from all of the amazing companies in our area. Please take a look at the event write-up to learn more about this great event.

There are still a couple of spots open for our technical tour of Thompson pipe group in Rialto on November 8. We are going to take a tour of their facility, see how the pipes are manufactured, and witness a D-Load test. Then they will give a technical presentation, and provide lunch to those on the tour. If you are interested, please sign up on our webpage (asce-sbriv.org) or email Victor Elia (victor.elia@kwengineers) to get a spot.

Mark your calendars for our upcoming general meeting on November 14. We are going to have a panel discussion on the changes in the 2019 California Building Code, and what changes that Civil Engineers should expect. We have a broad panel of municipal and consultant representatives, so there should be something for everyone. Don’t forget that we have changed our venue for this event to the Old Spaghetti Factory on Mission Avenue in Riverside. We hope to see you there!

Lastly, ASCE is hosting a WQMP Workshop on December 11 in the Circle City Center in Corona. If you are involved in WQMP preparation or design BMPs, you will not want to miss this training. We have literally been planning for this event for years. Plus the training will include information about revisions to the new WQMP manual being prepared by Riverside County Flood Control District. The workshop is an amazing value for an all-day training thanks to our many volunteers that are helping put it together.

Sincerely,

Chet Robinson, PE, GE
San Bernardino and Riverside Counties Branch President
crobinson@cityofmenifee.us
The conclusion of the 2019 Professional Engineers Exam cycle brings a good time to explain why we as engineers or aspiring engineers must endure the rigorous process to become licensed to practice engineering in the state of California.

The California Legislature created the Board of Registration for Civil Engineers in 1929, following the tragic failure of the St. Francis Dam in northern Los Angeles County. The tragedy occurred on March 12, 1928, when the dam suddenly gave way with little warning. Approximately 1.6 billion cubic feet of water flooded the narrow valley of the Santa Clara River, killing nearly 450 people and destroying 1,200 structures along with 10 bridges. At the time this was the worst man-made disaster in California History. After the devastating event an inspection revealed that the failure occurred due to the saturated condition created by the reservoir which essentially re-activated a large landslide failure plane. The Legislature determined that the unregulated design of construction projects constituted a hazard to the public.

The design and construction of the St. Francis Dam was executed under the supervision of the Los Angeles Bureau of Waterworks & Supply chief engineer William Mulholland. William Mulholland was a “self-taught” engineer who had achieved national recognition and admiration for the design and construction of projects such as the Los Angeles-Owens River Aqueduct. Mulholland had also overseen the completion of numerous embankment dams however, Mulholland’s experience in concrete dam design was lacking. The failure of the dam led the Board to impose restrictions on those who act in an engineering role to protect the safety of the public; ensuring that engineering projects in the State of California are designed and built safely by competent and qualified professionals.

Since 1929 the Engineering Legislature has been revised several times to include a broader range of engineering disciplines. Most recently, in 2009, legislation was enacted that eliminated the Board of Geologists and Geophysicists and transferred duties and jurisdiction of regulation of those practices to the Board of Professional Engineers and Land Surveyors. The Board then officially became the Board for Professional Engineers, Land Surveyors, and Geologists (BPELSG) on January 1, 2011.

California currently regulates the use of the practice and the use of the title of Civil, Electrical, and Mechanical Engineer. These three are known as Practice Acts. Only those registered are authorized to use the title, practice, or offer to practice in that discipline. Two additional title Authorities are available for those who have attained Civil registration; Structural and Geotechnical. Only those registered as a Geotechnical Engineer or Structural Engineer may use these titles. The California Professional Engineers act has more detailed information regarding engineering titles.

The Board of Engineers, Land Surveyors, and Geologists consists of 15 members (seven licensed members and eight public members) who are appointed to the Board for four-year terms. The seven licensed members represent various branches of engineering (civil, electrical, mechanical, structural, and any other branch), land surveying, and geology or geophysics. Board meetings are held monthly and in locations within the full state area, from San Diego, to the LA area, the Bay area and Sacramento. The meetings are open, and the public is invited to attend.

Engineers and aspiring engineers living in the state of California should be familiar with board website (https://www.bpelsg.ca.gov). The website contains its laws and regulations, forms for licensure, and a newsletter published on a quarterly basis noting things such as license violations, honoring recently deceased licensed individuals, and legislation news/updates.

About the author: As an active member of ASCE and a lifelong resident of California, Chris is a Civil Engineer at IMEG Corp. His day to day duties allow him opportunities to apply civil site engineering principles to the region’s growing community in a wide variety of market sectors. His technical interests include stormwater management, roadway & site engineering, and sustainable design. He also has interest in law, licensure, and ethics.
ASCE SB/Riv attended the ASCE Los Angeles Section Annual Meeting, Installation of Officers and Awards Luncheon at the Hyatt in Long Beach, CA on October 5, 2019. This was a well-attended event with over 150 engineers from across the Los Angeles Section hosted by the new President for Los Angeles Section Daniel Cronquist. ASCE Section and Branch officers were installed including attendees Chet Robinson as President and Victor Elia as President-Elect. It was great to see such strong support from the Cal Poly Pomona student chapter as well including over 10 attendees to cheer on Dr. Seema Shah-Fairbanks as President-Elect for the Los Angeles Section. Our friends in YMF also attended including President Eric Aubry and Mohammad Elhocheimi to cheer on the awards winners including:

Chet Robinson – Outstanding ASCE Branch Officer

John Rogers – Outstanding ASCE Life Member

Project Award Winners from ASCE SB/Riv included:

Airports and Ports Project of the Year: Taxiway D, Hemet-Ryan Airport Asphalt Rehabilitation

Architectural Engineering Project of the Year: Dennis and Carol Troesh Engineering Building at Cal Baptist, Riverside, CA

Small Project of the Year: CASC Headquarters LID Project

It was great to see such a great turnout of SB/Riv project award winner!

Congratulations to all of our Award Winners!
On Friday, October 18, 2019, ASCE San Bernardino / Riverside Branch and YMF members came together at beautiful Trilogy Golf Course in the South Corona area to raise monies for student scholarships. From draining miracle puts on the green to driving a marshmallow off of the tee box, the golfers had a fun time on the course doing what they love for a good cause. Several students from Cal Poly Pomona were in attendance to graciously volunteer their time. They were presented as a sample of the type of individual that benefits from the fundraiser.

Local Engineering companies such as Valued Engineering, TKE Engineering, Michael Baker International, Pavement Recycling Systems, Whitson CM, Rick Engineering Company, California Filtration Specialists and CBelow sponsored the event and provided numerous raffle items in effort to raise funds. Raffle items were selected and distributed to the winning individuals.

Awards and trophies were handed out to the top placing teams in the overall scramble tournament.

The team from TKE Engineering took third place.

The team from Valued Engineering took second place.

The team from Kimley-Horn took first place. There winnings included individual plaques as well as a perpetual trophy that will have their names engraved.

Proceeds of the event will be handed out to students in scholarship form at the upcoming June annual dinner.
The ASCE National conference was held in sunny Miami, Florida on October 10-13. I was blessed to attend this conference with fellow ASCE members from across the United States as well as numerous other countries. We all congregated at the Hyatt hotel in downtown Miami adjacent to the Miami river. As beautiful yachts cruised by outside, I attended interesting and thought-provoking seminars as well as industry forums.

The conference began with a glimpse of the ASCE Future World Vision by listening to the opening keynote address and previewing the Floating City exhibit. ASCE members were engaged by Virtual Reality displays that allowed individuals to browse and witness an example of the future. The experience was memorable. I attended seminars provided by the History and Heritage group on the construction of the Statue of Liberty as well as the Transcontinental Railroad. I also gained current knowledge and understanding of what is happening in Washington, which will aid me in future legislative visits. David Mead spoke at an industry leaders forum and taught me the understanding of a what makes the company I work for unique. It was quite interesting to understand that most companies can easily explain the “what” and “how” reasons that they produce their product, but often fail at explaining and promoting the “why”. Learning to refocus the company I work for on the “why” will be extremely beneficial to what I do on a daily basis.

I was also blessed to take a technical tour to the present the local Sea-level rise projects in the South Beach area as well as a culinary tour in South Beach. All of the ASCE members from the California region also met for our annual dinner on Friday night to interact and share stories of what we learned. Overall, the trip was a fruitful with knowledge gained and relationships strengthened and renewed and I am thankful to ASCE for the opportunity.
ASCE SB-R YMF members Katherine Hernandez, Stephanie Hernandez, Guadalupe Cortes, and Gustavo Gomez volunteered to support and mentor the bright minds of Girls Excelling in Mathematics with Success (GEMS) at the 2019 STEMfest. United Way of the Inland Valleys hosted the event at the Bourns, Inc. headquarters in Riverside, CA.

The volunteers facilitated a group project activity at the event in which teams of young ladies combined their skills in math and critical thinking to solve an engineering problem. The volunteers circulated the activity area, lending advice and guidance to the girls by using their professional experience.

The hosting organization, United Way of the Inland Valleys, in Riverside, CA works towards closing the gender gap by creating opportunities for middle school girls in our communities to experience the STEM environment. Their program is called GEMS (Girls Excelling in Mathematics with Success), and part of the program is to host the GEMS STEMfest at the beginning of the school year. This program and event are possible due to support from local sponsors.

The ability of young women to impact change in society is valuable to the world. Young women can bring about a fresh perspective to problem-solving due to experiences they may encounter that vary from those of their male counterparts. However, there is a huge gender gap when it comes to the world of STEM. Many young women are under the false impression that they might not be “smart enough” to pursue a career in STEM, even though they excel in math. Unfortunately, sometimes we lack programs to help stimulate their abilities in STEM to move them in the direction of a STEM career. This event, and ASCE’s participation in the event, aims to help young women realize that the STEM world is also available to them, and that they have the ability to shape STEM innovations in their future.
TECHNICAL TOUR
THOMPSON PIPE GROUP

Join ASCE to tour Thompson Pipe Group’s manufacturing facility to learn about how pipe is manufactured and what are the technical specifications of varies pipes:

Tour consist of two parts:

1) A tour of their manufacturing facility. Where Thompson Pipe will show how Reinforced Concrete Pipe and Box Culverts are made from raw materials to a finish product. They will go over all the different products that they bring to the market and lastly, they will even perform a D-Load (three-edged bearing) test where they can explain how concrete pipe is inspected and tested.

2) Thompson Pipe offers a technical presentation on the comparisons of rigid vs. flexible storm drain pipes. They will compare the differences between these two systems, the proper way to install them and even compare total installed cost.

Each tour takes about an hour and lunch is included!

Register early to guarantee your spot. Space is limited to 20 people. Hope to see you there!

Date: Friday November 8, 2019
Time: 10:30 AM – 1:00 PM
Location: Thompson Pipe Group
3011 N Laurel Avenue, Rialto, CA 92377
Cost: No Cost

Register: Click Here

Additional Info: Bring a hard hat and safety vest if you have one!

Questions, Contact: Victor Elia, PE Victor.Elia@KWCEngineers.com
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2019 CALIFORNIA BUILDING CODE UPDATE
Starting January 1 next year, the 2019 California Building Code (CBC) will provide guidance for design of projects in the state of California. Are you aware of the changes that are coming and how the update will affect your designs? Please join us for a panel discussion on the upcoming code changes and stay informed on how Civil Engineers will be affected. The panel will include members from our local agencies along with consultants to give us a broad perspective on the upcoming changes.

Take advantage of this chance to prepare yourself for next year. Our esteemed panel of speakers will include:

Chris Christopoulos, CBO, CASp, Deputy Director/Building Official, City of Riverside
Craig Carlson, Building & Safety Manager, City of Menifee
Shawn Lothrop, Structural Engineer, Innovative Structural Engineering, Inc.
Paul Kim, Geotechnical Engineer and Engineering Geologist, Albus Keefe.

We are changing from our normal venue for this event. Please join us for this event at the Old Spaghetti Factory on Mission Inn Avenue in Riverside. Register early to guarantee a seat. Hope to see you there!

Date: Thursday, November 14, 2019
Time: 11:30 AM – 1:00 PM
Location: Old Spaghetti Factory
3191 Mission Inn Avenue, Riverside CA 92507
Cost: $35 ASCE Members w/ RSVP
$30 Government Employees w/ RSVP
$25 ASCE Life Members & Students w/ RSVP
$40 Non-Members / Walk-Ins / No RSVP
*Parking is FREE
Register: Click Here
Deadline: Please RSVP by November 6, 2019

Additional Info: Chet Robinson, P.E., G.E.
(951) 723-3879
crobinson@cityofmenifee.us

• www.asce-sbriv.org • @ASCESBRIV on Twitter • @ASCESBR on Instagram • SBRI on Facebook
Join us to learn about the Santa Ana, Santa Margarita, and Whitewater Watersheds WQMP templates and current guidance.

Come to get insight from recognized stormwater engineering leaders. Whether you are new in preparing WQMP templates or are an avid BMP designer, you will have the opportunity to learn something new in this workshop. This workshop will help you sharpen your WQMP design skills and stay up to date with the new revisions that are set to come out soon!

*This workshop includes breakfast and lunch.

For more information, contact:
Mitzi Sepulveda, E.I.T.
mitzi.sepulveda@webbassociates.com

CLICK HERE TO REGISTER!
$750—Gold Level Sponsorship (3 available)
• Breakfast or lunch sponsor—little sign at the food table showing whose sponsoring it
• Company logo to be added to flyers, day-of agenda and 1st presentation slide
• Mentioned in announcements at beginning
• Provided 2-4 minutes to speak to audience
• Vendor table as well as cost for entry of (3) company representatives

$500—Silver Level Sponsorship
• Company logo to be added to flyers, day-of agenda and 1st presentation slide
• Mentioned in announcements at beginning
• Vendor table as well as cost for entry of (2) company representatives

$250—Bronze Level Sponsorship
• Company logo to be added to flyers, day-of agenda and 1st presentation slide
• Covers cost for entry of (1) company representative
ASCE San Bernardino Riverside Board of Directors

2019-2020
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employment opportunity?

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Be sure to check out the career opportunities at ASCE’s Career page at http://asce-sbriv.org/job-dashboard/careers/

Shift Your Career Perspective
ASCE CONTINUING EDUCATION

Check out all of the content available from ASCE. When ordering be sure to use the Promo Code below so that the branch will receive 20 percent of the gross revenue from the registration. This helps the branch to reduce member costs, provide better activities and give out more scholarships for the benefit of the local engineering community.

WEBSANBRIBRA

http://www.asce.org/continuing_education/

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<tr>
<th>Date</th>
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<td>Technical tour at Thompson Pipe Group</td>
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<td>November 11, 2019</td>
<td>ASCE General Meeting - Building Code Updates</td>
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<td>December 6, 2019</td>
<td>ASCE SB/R Branch Board Meeting at 7:30AM at: Menifee Breakfast Club</td>
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<td>30076 Haun Rd, Menifee, CA 92584</td>
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<td>December 11, 2019</td>
<td>WQMP Training Workshop</td>
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## Membership Information

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<td>Associate Member</td>
<td>$50 per year of Baccalaureate degree and first year after, then incremental increases to $225 over five years.</td>
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National ASCE student membership is now FREE! Those who have chapters or clubs still must be a member of them before joining National. Log onto [http://www.asce.org/join/](http://www.asce.org/join/) fill out the short application or call 1-800-548-ASCE (2723) and instantly become a member of ASCE.

Online membership renewal is available! Go to [http://www.asce.org/membership-communities/](http://www.asce.org/membership-communities/) You will need your membership number. All payments must be made with a major credit card. An e-receipt is transmitted to the member upon completion of the transaction.

## Newsletter Information

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