

PRESIDENT'S MESSAGE

Kenneth E. Cox, P.E., G.E.



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Hello Members,

I am pleased to announce that our San Bernardino and Riverside Counties Branch will now be partnering with ASCE National to promote continuing education through ASCE's on-demand and live webinar programs. ASCE National has provided our branch with a unique promotional registration code: WEBSANBRIBRA. When we use this Promo Code during registration for any ASCE webinar, our branch will receive 20 percent of the gross revenue. Click [here](#) to find listings of available live and on-demand webinars. These funds will be utilized to improve the quality of our branch activities and reduce the cost of these activities to our members. You may not be aware that the registration cost of many of our branch activities is set below the cost of the facilities and services. The extra expense is covered in part by our annual dues. Utilizing this Promo Code will assist us in our goal to keep the quality high and registration cost low. Another funding priority for our branch is our annual scholarship program which assists engineering students at Cal Poly Pomona and Cal Baptist University.

We are excited for our annual Awards and Scholarship Banquet scheduled for the evening of June 28 (mark your calendars!). Awards are available for outstanding engineering projects and exceptional civil engineers as well as

...CONTINUED ON PAGE 2



President's Message Continued

...CONTINUED from PAGE 1

scholarships available to our local engineering students. We have expanded and refined our award categories this year. Review the instructions and fill out the application included on pages 26 and 27 of this newsletter. I am certain that each of you know of an exceptional engineer or outstanding project (outstanding engineers and exceptional projects will also be accepted!). Let's make sure we give recognition where it is due.

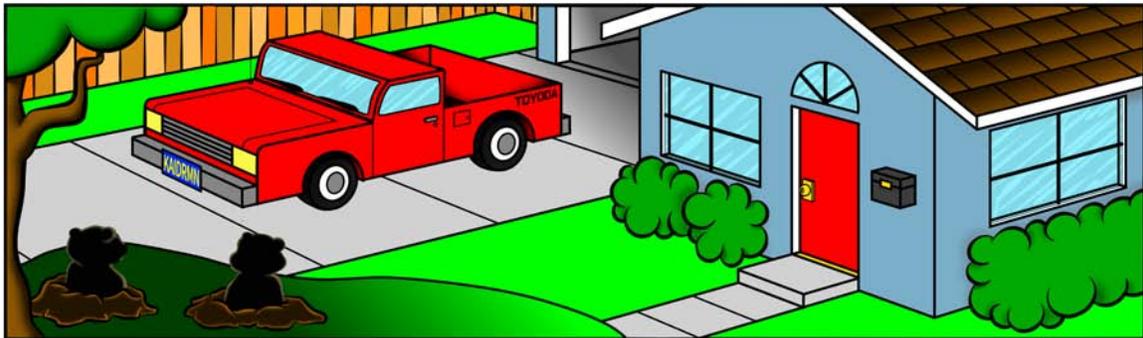
Sincerely,

Kenneth E. Cox, P.E., G.E.

San Bernardino and Riverside Counties Branch President

KAITOONS

By Kai B. Parker, Geocon West, Inc.

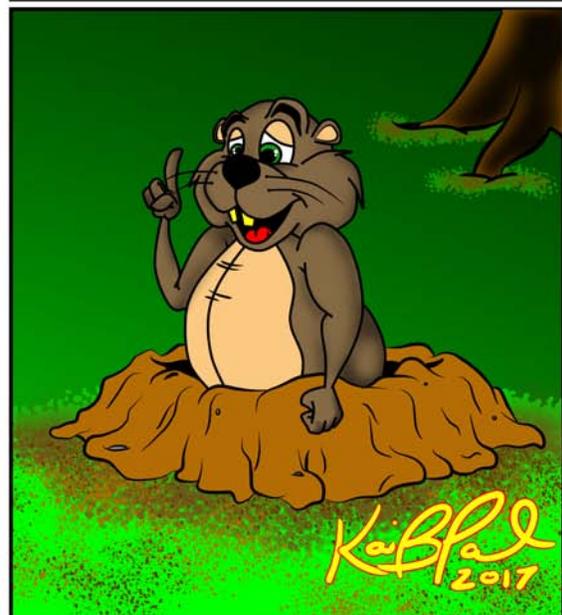


GEE... THOSE GIANTS SURE DO BUILD SOME FANCY CASTLES!

YEAH, THE HOUSE LOOKS NICE NOW. THAT IS UNTIL I BURROW A SYSTEM OF SUBTERRANEAN PASSAGeways UNDERNEATH IT, LEAVING HUGE VOIDS IN MY WAKE THAT WILL LEAVE OPEN CHANNELS FOR WATER MIGRATION AND CAUSE SOIL EROSION. ULTIMATELY, THIS WILL LEAD TO SETTLEMENT WHICH WILL LEAD TO CRACKS IN THE SLABS AND WALLS, STICKING OF THE WINDOWS AND DOORS, AND BROKEN PIPES. THE COST FOR REPAIRS AND INSURANCE DEDUCTIBLES WILL PROBABLY LEAD TO AN EXPENSIVE LAWSUIT AND AN OVERALL UNSATISFYING HOME BUYING EXPERIENCE.



YOU KNOW WHAT, CHUCK? YOU WERE ALOT FUNNER BEFORE YOU STARTED STUDYING ENGINEERING!



FOLLOW @THEAMAZINGKAIDERMAN ON INSTAGRAM FOR MORE ART & ALL MY #KAITOONS

Lake Oroville Spillway Incident

For many people, the word infrastructure conjures memories of annoying potholes that never get fixed, magnificent bridges like the Golden Gate in San Francisco, and enormous walls of concrete like the Hoover Dam in Nevada/Arizona. However, much of the world's infrastructure is not as elegant nor as visible; from water pipelines running underneath city streets to man-made reservoirs far from cities.

Ever since the Romans built the first aqueducts in 312 BC, humanity has always used engineering and construction techniques to deliver water to where it is most beneficial. Water is not always so kind, especially when billions of gallons are held back by a massive earthen dam and Mother Nature inadvertently issues a challenge to the engineers and operators.

California has been in an historic drought for the last 5 years, but the recent rainstorms and blizzards have seemingly washed away all memory. Although the rain and snow was a sight for sore eyes, the deluge was sometimes far too much and came far too quickly. In February of 2017, Californians were abruptly reminded of the importance of our flood control infrastructure and the people that designed, built, maintain, and repair it.

Located on the Feather River, east of the city of Oroville in Northern California, Lake Oroville is the second largest man-made reservoir in the state of California. It is used for flood control, water storage, and hydroelectric

power generation; where the water is 690 feet deep and has a holding capacity of 3.5 million acre-feet or one year of water for 12,000,000 households. The lake was the result of building Oroville Dam; the tallest dam in the United States, completed in 1967 and stands proudly at a height of 770 feet. The chain of events that encompassed the February 2017 incident at Lake Oroville are as follows:

February 7 – As Department of Water Resources (DWR) employees released water through the main Oroville Dam flood control spillway in anticipation of expected rainfall inflows, a large area of concrete erosion appeared. DWR temporarily stopped outflows to investigate the erosion; after testing, outflows resumed to account for the fast rising reservoir levels. Crews also began preparing for use of the emergency spillway adjacent to the main spillway.

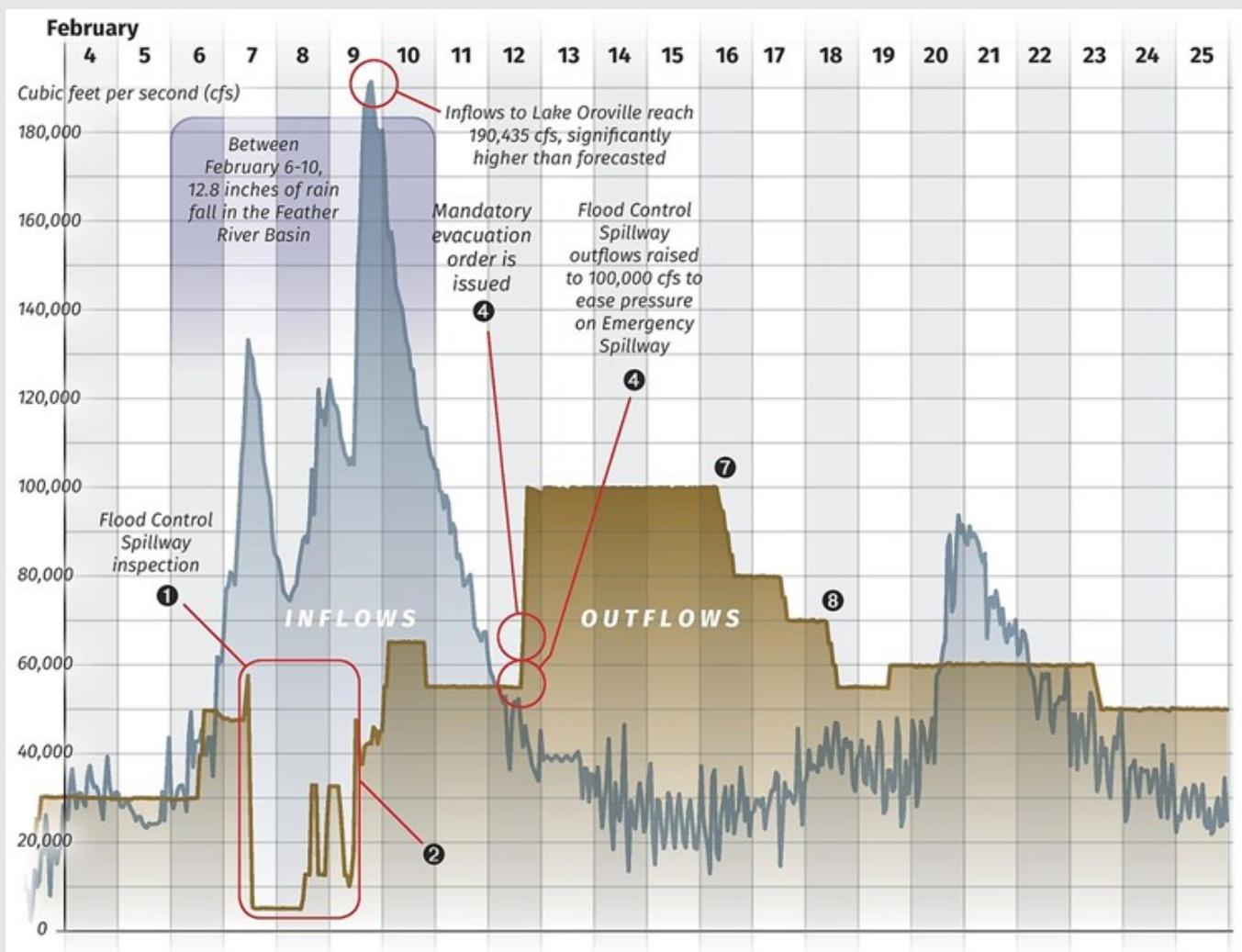


Oroville Dam's Main Spillway on February 11, 2017
by William Croyle, California Department of Water Resources

February 11 – As a result of the relentless rainstorms, inflows to Lake Oroville reached a peak of 190,000 cubic feet per second (cfs), far outpacing the damaged main spillway’s 55,000 cfs outflow and this brought the lake level to above 901 feet above mean sea level (amsl). Upon reaching this height, the emergency spillway engaged for the first time in the history of the facility and water began flowing – as designed – over the concrete weir along the top of the emergency spillway.

February 12 – The anticipated erosion of the base of the emergency spillway begins to progress faster than expected. Although separate from the

structure of the dam and there was no danger of the main embankment being breached, the erosion of the emergency spillway threatened to undermine and collapse the concrete weir, in which case a 30-foot wall of water could be sent into the Feather River below and flood communities downstream. Taking all precautions, the Butte County Sheriff’s Office issued mandatory evacuation orders for the Oroville area. To ease pressure on the emergency spillway, the flood control spillway outflow was increased to 100,000 cfs. Eventually inflows decreased and overflow stopped at the emergency spillway.



Source: California Department of Water Resources

February 13 to February 14 – As the lake level continued to drop, the mandatory evacuation order was modified to an evacuation warning. Crews worked around the clock to repair and armor the emergency spillway; operators targeted a lake level elevation of 850’.

February 16 to February 18 – Flood control spillway flows are reduced to below 100,000 cfs to facilitate the clearing of debris from below the spillway. Eventually lake levels reduced down to 854 feet and outflows down to 55,000 cfs. Barge construction began to remove debris from diversion pool beneath the spillway.

February 20 – Finally at 11 a.m. Lake Oroville reached 848.95 feet. Repairs and preparations continued around the clock.

Crisis was averted thanks to the quick thinking and fast actions of the employees at the Department of Water Resources. Further damage and potential disaster was prevented thanks to the brave workers that rushed into the fray to repair and armor the spillways.

The preliminary cost estimate for repairing or replacing the damaged main spillway is expected to be over \$200 million. Full state, federal, and local resources have been marshaled to help manage Lake Oroville operations, assess the problem and fix it rapidly. Work is being done around the clock and will continue to be expedited through the summer to ensure the spillways are safe by the next flood season.

The February 2017 Oroville Dam Spillway Incident will not be forgotten and sheds an infamous light onto the importance of proper engineering & maintenance and the consequences for lack thereof. These facilities that are so critical to maintaining our way of life may be out of sight, but must never be out of mind. As our infrastructure ages and resources are not spent to replace or maintain, it becomes much more difficult for the men, women, engineers, operators, and field crews to utter the phrase, "When you do things right, people won't be sure you've done anything at all."

Sources: California Department of Water Resources

<http://www.water.ca.gov/oroville-spillway/index.cfm>

<http://www.lakeoroville.net/f-a-q.htm>

**Interested in writing articles
For the Engineers Column?**

**Contact the Newsletter Editor
Chet Robinson, GE
at robinson@geoconinc.com**

MARSHAL CANYON HIKE

San Bernardino-Riverside Branch YMF

March 11, 2017

By: Ibrahim Ibrahim and Roman Ramos



On Saturday, March 11 2016, San Bernardino/Riverside ASCE Younger Member Form (SB/R ASCE YMF) organized a great hike of the Marshal Canyon Trail in La Verne. Participants arrived to the meeting location (Oak Mesa Park) around 10:00 AM. The trail has lots of great scenery and creeks. Participants had a chance to do creek crossings, take great pictures, and enjoy the shaded areas along the trail. By approximately 1:30PM the hike was concluded. The event was a great success. Thanks to Roman Ramos (ASCE SBR YMF Activities coordinator) for organizing such a great event.

TECHNICAL TOUR

ALL AMERICAN ASPHALT FACILITY

San Bernardino-Riverside Branch YMF , March 24, 2017

By Ibrahim Ibrahim, PE

The technical tour for the month of March took place at the All American Asphalt mining facility in Corona. The site can be easily seen from Interstate 15 and Highway 91, the site is located to the south east of the interchange. The facility is one of three that provide aggregates for paving and concrete projects for much of southern California, most likely you have seen their equipment along the road at a construction site proudly displaying their American flag. The site has a footprint of over 600 Acres, so attendees of San Bernardino/ Riverside (SB/R) ASCE were driven around the site via a small air conditioned bus provided by All American Asphalt.

Our transportation for the morning.



The event commenced about 10:00AM with a brief overview of the on-site maintenance and storage areas where all routine maintenance is performed. Then the group was chauffeured to different locations where we could witness the step-by-step mining process of creating 3/4", 1/2", and other size aggregates to be used in pavements and concrete jobs. Our tour started at the mining 'pit' where the first step creating aggregate materials is blasting. Surprisingly, the explosives used are made of inert and organic materials, which are activated with electric current and a 'special' mixture. A large high pressure drilling machine is used to prepare the site with the explosives by making approximately forty (40) 60-foot deep holes per blast site.

TECHNICAL TOUR

ALL AMERICICAN ASPHALT FACILITY (Continued)



Machine on left digs 50-feet+ deep holes for explosives, right

The group had a chance to see the process of breaking down the large boulders with the use of special crushers. It was awesome to see the equipment used to haul and move material around the site, some of the equipment used were excavators, bulldozers, dump trucks, and many conveyor belts for transporting of smaller rock materials.

Giant dump trucks ready for hauling and dozer moving large boulders.



Giant dump truck on the move and a large rock crusher with a conveyor belt in the background moving smaller rocks up the hill



TECHNICAL TOUR

ALL AMERICAN ASPHALT FACILITY (Continued)



100 ton excavator bucket and ASCE/YMF group

We got a chance to see the control room where all equipment and material productions is monitored constantly with the help of a SCADA and PLC (Programmable Logic Control). We also got to see how much recycled material is used in making the asphalt for new pavement. Materials from used shingles, recycled tires, and recycled pavement are all used in creating asphalt for new pavement materials. As we toured around the site, the practice of engineering from different disciplines can easily be spotted at every step of the process throughout the tour. It was a great trip, and amazing to see well integrated, clean, and eco-friendly a site of this magnitude can be. ASCE/YMF would like to give a special thanks to All American Asphalt and Bill Ballon for taking time out of his schedule to give the tour and answer all of our questions.



Different size aggregates are stored in the white silos; the material is loaded onto loading trucks for delivery to construction site. The colored silos (American flag) hold the hot mix asphalt pavement material. 9

ASCE MARCH LUNCH MEETING
SUCCEEDING WITH GENERATIONAL DIFFERENCES
ASCE San Bernardino-Riverside Branch, March 29, 2017
By: Julianna Adams, PE

March 29, 2017 marks a very special day for the ASCE San Bernardino-Riverside Branch! The Succeeding with Generational Differences Presentation by Blaine Leonard was a huge success. Our National Past-President brought 70 people, both members and non-members, to our meeting. One of the most attended in recent years!

The discussion about the characteristics and the cultural influences for the four generations currently working: Traditionalists, Boomers, Gen Xers and the Millennials, was very interesting. I appreciated the part of the presentation where he talked about working with the different generations. Who likes meetings? Who prefers e-mail? Who wants awards for their hard work? And who wants flexible work hours? The specific answers to these questions don't really matter. The real take-away from this meeting was to be aware of the differences. None are particularly good or bad, even though each generation has their own opinion. Just different. Our differences are our strengths and we all just need to know our staff and work with their strengths. I hope you all enjoyed the presentation as much as I did.



CAREER DAY AT UNIVERSITY HEIGHTS MIDDLE SCHOOL RIVERSIDE, CA

ASCE San Bernardino-Riverside Branch, March 30, 2017

By Sarah Lunetta, PE



Career Day at University Heights Middle School was met with enthusiasm from the students, teachers, and speakers. I arrived around 8AM to the school and was warmly greeted by one of the teachers and guided where to park by excited students holding welcome signs. Jeff Meiter, the other ASCE presenter, met me in the library, where the

event organizers were gathering the students and speakers. As we waited for the event to begin, the two student ambassadors, who would be our guides to the first classroom, asked us questions about civil engineering, infrastructure, and what it is like to be a civil engineer until the head organizer for the event Ms. Keisa Brown, one of the teachers, welcomed all the speakers to the school and told us what to expect for the event that morning. Then, our student ambassadors led us to the first classroom.

We were led into an English class and our student ambassadors introduced us to the class. As we began our presentation, Jeff told the students that he would toss out mini squishy ("stress reliever") hard hats to anyone who asked a question. Most students in the room perked up at this. Over the course of 40 minutes, Jeff and I tag-teamed the presentation on infrastructure, the types of civil engineering, jobs in civil engineering, and how to become a civil engineer. With the promise of squishy hard-hats and the occasional squishy blue brain, the students actively engaged us with questions about structures, geotechnical engineering, roads, flood control, sewage, solid waste, surveying, college, and the PE exams. At the end of the presentation, a couple students asked Jeff and I what inspired us to be engineers, ending the presentation on a thoughtful note.

The first class ended and two new student ambassadors introduced themselves to us and led us to the next class, this time a math class. We went through the presentation again. Some of the students in the math class like math and wanted to know more about engineering. These students asked us more questions about what we do at work and about the workings of infrastructure.

After the class presentation, the two student ambassadors led us back to the library, where Ms. Brown thanked the event organizers and the speakers for presenting to all the students. Our student ambassadors led us out of the library to the parking lot, leaving us with a small token of appreciation. While we only had 40 minutes to speak to each class, I hope we left some the students inspired to pursue careers in any of the STEM fields. At the very least, we left the students more educated on the functioning of infrastructure and what happens to their poop when they flush the toilet.



ASCE LA/SBR JOINT YMF SOCCER TOURNAMENT

San Bernardino-Riverside Branch YMF , April 1, 2017

By Ibrahim Ibrahim, PE

Members from the San Barbara/Ventura YMF (host), San Bernardino/ Riverside (SB/R) ASCE YMF, Los Angeles YMF, San Luis Obispo YMF, and Orange County YMF gathered for the joint YMF soccer event on April 1, 2017 at Cabrillo Park in Santa Barbara. The event kicked off at approximately 10 AM. Attendees were split into two teams, the hosting team (Santa Barbara YMF) and visitors (all other YMFs). Multiple halves/quarters were played. Attendees showed their skills and eagerness to win the game. The game ended with a tie and extra quarters were played that also ended with a draw. A golden goal scenario was the only solution for the two talented teams. San Barbara/Ventura YMF was able to score the golden goal and was awarded the LA section Joint YMF Soccer champions for the year. The trophy was handed to Santa Barbara/Ventura YMF. The event was wrapped up with lunch at Lama Dog Tap Room. The event went as planned, and participants enjoyed a great day in Santa Barbara. Thanks to Santa Barbara/Ventura ASCE YMF for the great event.



CITY OF CHINO "HIGH FIVE" AFTER SCHOOL PROGRAM CHINO, CA

By: Jerry Burke, President Elect ASCE Los Angeles Section

IEUA educational outreach folks connected Jerry Burke with two City of Chino "High Five" after school programs.

One at Newman Elementary, one at the Preserve.

The ages were 1st grade thru 6th grade.

In both presentations the real stars were the kids.

I had no idea what to expect with 1st to 6th graders.

They were so curious and had tons of questions from the start, it was really cool!

"The asphalt on the road, what's it made of?"

"If they bury the electrical lines underground, doesn't that mean you have to dig them up when they break to fix them?"

"How come when you come to some of those traffic lights they flash red?"

"Are their different kinds of concrete?"

"How long does it take to build a house?"

"How long does it take to build a hospital?"

The kids were amazing and I do plan to do it again next year.

Donald G. Wells ALUMNI GOLF TOURNAMENT

Cal Poly Pomona Civil Engineering

FRIDAY, APRIL 21, 2017

12:00 PM CHECK IN

1:00 PM TOURNAMENT START

6:00 PM DINNER RECEPTION

SAVE THE DATE! Please stay tuned for more details.
Questions? Contact us at cppascegolf@gmail.com.

Presented by Cal Poly Pomona  ASCE
AMERICAN SOCIETY OF CIVIL ENGINEERS

Coyote Hills Golf Course
1440 Bastanchury Road, Fullerton CA 92835



**WHEN IT'S
OVER, IT'S
OVER!
DON'T
WORRY.
ASCE YMF
STILL LOVES
YOU.**



PE BOOTH & HAPPY HOUR SOCIAL EVENT

FOR MORE INFO ON HOW TO BECOME AN ASCE MEMBER & TO LEARN MORE ABOUT WHAT YOUNGER MEMBERS (YMF) HAS TO OFFER IN YOUR LOCAL AREA CONTACT:

REMI CANDAELE, PE
LA SECTION YMF CHAIR
RCANDAELE@HUITT-ZOLLARS.COM
949.988.5815, EXT. 11193

LOS ANGELES YMF
ORANGE COUNTY YMF
SAN BERNARDINO-RIVERSIDE YMF
SANTA BARBARA/VENTURA YMF
SOUTHERN SAN JOAQUIN YMF
SAN LUIS OBISPO YMF

VISIT WWW.ASCELASECTION.ORG TO
CONNECT TO ALL OF THE YMF'S

WHEN: FRIDAY, APRIL 21, 2017
MEMBERSHIP BOOTH (PICK UP YOUR FREE ASCE GIFT)

WHERE: POMONA FAIRPLEX
TIME: 6AM-8AM & 12PM-1PM
POST PE EXAM SOCIAL EVENT

WHERE: INNOVATION BREW WORKS
3650 W. TEMPLE AVE
POMONA, CA 91768

TIME: AFTER THE PE EXAM (~5:30PM-8PM)
COST: FREE
WHO: EVERYONE IS INVITED... ESPECIALLY TEST TAKERS

FOR MORE INFO, CONTACT XOCHITL LOZANO, SB/R YMF VICE-PRESIDENT
AT XOCHITL.LOZANO@MBAKERINTL.COM



LOS ANGELES SECTION

San Bernardino-
Riverside Branch

YOUNGER MEMBER FORUM

ASCE SB/R YMF Softball Event

Saturday, April 22, 2017



KEEP
CALM
AND
PLAY
SOFTBALL



Event Information:

Date: Saturday, April 22, 2017

Time: 9:00 AM – 3:00 PM

Location: Ellena Park

7139 Kenyon Way

Rancho Cucamonga, CA 91701

Cost: Free! (Food will be provided as well)

please bring your own bats, batting gloves, and accessories you need or can provide for event day

Come and enjoy the food: Barbecued Hamburgers, Hot dogs, snacks and drinks

For more information or registration please contact:
Roman Ramos, YMF
Activates Coordinator
gilramos7@gmail.com

REGISTER NOW

2017-2018
COMMITTEE

**Bill Flores Jr., P.E., CPESC,
CPSWQ, QSP/D, ToR**
Chairman
(951) 320-7311
bill.flores@hdrinc.com

Arlene Chun P.E.,

**Cynthia Gabaldon, P.E.,
CPSWQ, CPESC, QSD/P, ToR**
Vice Chair
(909) 455-8520
cynthia.gabaldon@cgrme.com

Neil Nilchian, P.E.
nrm@att.net

Roy King, P.E.
(909) 383-4555
roy_king@dot.ca.gov

Contact us about
Dinner Sponsorship
opportunities. This
may assist you with
your marketing
efforts.

Wednesday April 26, 2017

Topic: Riverside County Hydromodification

Synopsis: This presentation will review Best Management Practices and implementation of Hydromodification, aid in defining/understanding flow and duration criteria, methods, and exemptions. This presentation will assist those working on WQMPs with the issues and requirements in providing compliance with the regional MS4 Permit. The approach and information in this presentation can be applied to other watersheds.

Tammie Moreno, P.E., QSD/P, is a Senior Project Manager for Kimley-Horn and Associates and Adam Corral, P.E., is Vice President of Greens Development

This is our first meeting in over a year. Hope to see many old and new faces!

Time:

6:00 - 6:30 pm: Check-In/Networking

6:30 - 7:00 pm: Dinner

6:45 - 7:15 pm: Presentation

7:15 - 7:25 pm: Q&A

7:30 pm: Adjournment

Location:

Riverside Convention Center

3637 Fifth Street

Riverside, California

(909) 346-4700

Cost:

Members \$35 prepaid; \$40 at the door (with reservations); Non-members and walk-ups \$45.

Send your request for a vegetarian meal to Cynthia.Gabaldon@cgrme.com

Reservations: RSVP by April 21, 2017 at 12 noon to Cynthia.Gabaldon@cgrme.com. No refunds after this date. Include the names of all persons attending with membership number (if applicable). Your advance reservations, made and honored, are essential to fulfilling our catering commitment. No shows will be billed. Payment at the door will be accepted based on availability. Reservation response is still necessary.

By mail, please make checks payable to "ASCE Stormwater Committee" and mail to:
Bill Flores Jr.
ASCE Stormwater Committee Chairman
HDR Engineering, Inc.
2280 Market St. Suite 100
Riverside, CA 92501

Paypal is also available through the Chapter – please let us know you have paid on-line.

Parking: Free parking is available on the



LOS ANGELES SECTION

San Bernardino-
Riverside Branch

YOUNGER MEMBER FORUM

ASCE SB/Riv YMF Skate Night

Friday, April 28, 2017



Event Information:

Date: Friday April 28, 2017

Time: 8:30 PM – 11:30 PM

Location: Skate Express

12356 Central Ave

Chino, CA 91710

Cost: \$6.00! (Covers Admission and Skate Rentals)

Come keep it old school with SB-Riv YMF to a night of skating, arcade games, mini bowling, and a snack bar. DJ will be spinning Old School Jams from 8:30 to 11:30 PM.

Come and enjoy a night of music, gaming, networking, and skating!

For more information or registration please contact:
Roman Ramos, YMF
Activates Coordinator
gilramos7@gmail.com

REGISTER NOW

ASCE San Bernardino-Riverside Branch is going to Las Vegas!



For a Technical Tour of the Bellagio Fountains Filtration System

The San Bernardino-Riverside Branch joint with the Las Vegas Branch and YMF will be touring the Bellagio Fountains Filtration System in beautiful LAS VEGAS, NEVADA. The Fountains of Bellagio were destined to romance your senses with a spectacular show of interwoven water, music and light designed to mesmerize its admirers.

This weekend technical tour trip will begin on Friday May 5, 2017 with a social event for you to enjoy with your engineering friends and family. Then Saturday, May 6, 2017 at 12 noon we will join the Bellagio facilities manager for a special tour of the Bellagio Fountains Filtration System.

Only 40 people allowed so RSVP as soon as possible

to jgonzale@rivco.org

Please note: hotel reservations will not be coordinated by ASCE SB/Riv Branch



GEO-
INSTITUTE

SoCal Inland Empire
Chapter

LOS ANGELES SECTION, REGION 9

San Bernardino & Riverside Counties Branch – Geotechnical Committee

SoCal Inland Empire Geo-Institute Chapter

FOUNDED 2010

May 17, 2017 Presentation

Presaturation Below Slab-On-Grade

Mr. Hans Tolksdorf, P.E.

Senior Engineer, Kling Consulting Group, Inc.

COMMITTEE MEMBERS

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Jeff Waller, PE, GE
Kleinfelder
951-801-3681
jwaller@kleinfelder.com

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Geo-Logic Associates
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pkim@geotekusa.com

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Hans Tolksdorf, PE
Kling Consulting Group, Inc.
949-797-6241
hanstolksdorf@gmail.com

Past Chairman

J. Montgomery Schultz, PE, GE
Petra GeoSciences
714-549-8921
mschultz@petra-inc.com

Presaturation or prewetting is one method used for the mitigation of expansive soil below slab-on-grade. In the Western United States and California especially, extended periods of drought followed by heavy rainfall can compound the problems associated with expansive soils. Slab-on-grade (flatwork) concrete is especially susceptible and its modest construction cost means that any mitigation must also be very cost-effective.

Recent research on "Efficacy of presaturation for controlling the effects of expansive soil below slab-on-grade in California" was completed by the presenter and recent MS graduate, Hans Tolksdorf, under committee chair, Donald Coduto, and professional member, Henry Kling, at the California State Polytechnic University, Pomona.

This presentation will cover the findings from this research, including a state of practice survey for California, made possible in part, through the cooperation of The California Geotechnical Engineering Association (CalGeo).

Hans Tolksdorf recently earned his MS in Civil Engineering from Cal Poly Pomona. He has worked in the field for more than 10 years, including the past four years in Irvine with Kling Consulting Group, Inc. Previous experience included working for the Corps of Engineers at dam sites across the Western U.S. and six months in Afghanistan during Operation Enduring Freedom.

Technical Presentation:

Date: Wednesday, May 17, 2017

Time: 6:00 - 6:45 PM Registration and socializing
6:45 - 7:30 PM Dinner
7:30 - 8:30 PM Technical presentation

Location: Zendejas Mexican Grill, 8106 Milliken Avenue, Rancho Cucamonga

Cost: \$30 members w/ RSVP, \$35 non-members or no RSVP, \$10 students

Registration and Additional Info: RSVP by May 12, 2017 to Hans Tolksdorf at: hanstolksdorf@gmail.com



A Pathway to Success

United Way of the Inland Valleys invites you to
a celebration to expand
GEMS Girls Excelling in Mathematics with Success
A program created by Dr. Pamela Clute

Featuring demonstrations by girls from the program

Saturday, May 20, 2017

4:30 pm Beer and Wine Tasting

6:00 pm Dinner

7:00 pm Awards Ceremony honoring
outstanding contributions to GEMS

Heyming Family Residence
Riverside, CA

Early Bird Pricing through May 1st
\$550 table of 8

Sponsorships Available

Please RSVP with the enclosed card
or online at uwiv.org/pathway
For questions, contact Kimberly (kstarrs@uwiv.org 951-697-4700)



LOS ANGELES SECTION, REGION 9

San Bernardino & Riverside Counties Branch

FOUNDED 1953

2016-2017 Outstanding Achievement Awards

The San Bernardino & Riverside Counties Branch of the American Society of Civil Engineers has an annual awards program to recognize local outstanding projects and engineers. Nominations must be submitted online or postmarked by April 28, 2017.

Applications may be submitted online at the Branch's Awards Portal:

<http://www.asce-sbriv.org/awards.html>

or mail completed nomination forms and supporting information to:

San Bernardino/Riverside Branch ASCE
Annual Awards Program
Attn: Steven Ledbetter, Past President
2305 Chicago Avenue
Riverside, CA 92507

Award winners will be notified by May 22, 2017. The awards banquet will be held at the Riverside Convention Center on June 28, 2017.

All nomination forms and supporting documents are the property of the San Bernardino & Riverside Counties Branch and may be used at the Branch's discretion. Submittals will not be returned to the applicant. For additional information, please contact Steven Ledbetter at (951) 680-0440 or sledbetter@tkeengineering.com.

The Branch has established the following awards for 2016-2017:

Candidate Awards

These awards recognize individuals who best exemplify the civil engineering profession. The nominees shall be worthy of acknowledgement through their exemplary professional conduct, reputation, achievement, and contribution to the image of the civil engineer.

Each nominee must be an ASCE National member and a member of the San Bernardino & Riverside Counties Branch. The nominee must work and/or reside within the boundaries of the Branch for a minimum of 18 months prior to the award. Past recipients of a specific candidate award are not eligible to be nominated in that same category.

Selection of the award shall be based on the following criteria: education and professional qualifications such as degrees held, projects completed, patents, publications, presentations, and teachings, professional qualities including society affiliations, offices held, leadership skills, professional conduct, reputation for service, character, integrity, contribution to the image of the civil engineer through community service, volunteer work, public education, honors and awards.



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All applications for the candidate awards shall include the following (total application packet limited to five-pages): completed award program entry form, description of how the individual meets the above listed criteria (two-page limit), biography or resume (one-page limit), copies of the newspaper or journal articles and other supporting information, if applicable.

Outstanding Civil Engineer in the Public Sector

This award is given on the basis of outstanding engineering achievement. Consideration shall be given to the Engineer that has exhibited professional achievement and has made significant impact to the field of civil engineering. This impact may be through professional activities, ASCE involvement, research and innovative engineering solutions. This award is intended to be awarded to individuals employed by a public organization. The nominee for this award shall be a Registered Professional Engineer and be a member of ASCE San Bernardino-Riverside.

Outstanding Civil Engineer in the Private Sector

This award is given on the basis of outstanding engineering achievement. Consideration shall be given to the Engineer that has exhibited professional achievement and has made significant impact to the field of civil engineering. This impact may be through professional activities, ASCE involvement, research and innovative engineering solutions. This award is intended to be awarded to individuals in the private sector. The nominee for this award shall be a Registered Professional Engineer and be a member of ASCE San Bernardino-Riverside.

Outstanding Younger Civil Engineer

This award is given on the basis of outstanding engineering achievement. Consideration shall be given to the Engineer that has exhibited professional achievement and has made significant impact to the field of civil engineering. This impact may be through professional activities, ASCE involvement, research and innovative engineering solutions. This award is intended for individuals age 35 years or younger as of December 31 of the year of the award. The nominee for this award shall be a Registered Professional Engineer and be a member of ASCE San Bernardino-Riverside.

Outstanding Civil Engineering Student

This award is given on the basis of outstanding engineering achievement. Consideration shall be given to the engineering student that has exhibited professional achievement and has made significant impact to the field of civil engineering. This impact may be through professional and academic activities, ASCE involvement, research and innovative engineering solutions. This award is intended for full time Student Members of ASCE San Bernardino-Riverside and an active member of the Cal Poly Pomona or Cal Baptist University ASCE Student Chapter. The nominee for this award may be a Sophomore, Junior or Senior and enrolled in an ABET accredited Civil Engineering Program.

Outstanding Civil Engineer in Community Service

This award is given on the basis of outstanding community service. Consideration shall be given to the Engineer that has exhibited professional achievement and has made significant impact to the community and ASCE. This impact may be through committee involvement, political and social involvement. This award is intended to be awarded to individuals engaged in service beyond the field of civil engineering. The nominee for this award be a member of ASCE San Bernardino-Riverside.



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Outstanding ASCE Faculty Advisor

Presented to faculty member or a lecturer that best exemplify the civil engineering profession. The nominees shall be worthy of acknowledgement through their exemplary professional conduct, leadership, reputation, achievement, and contribution to the image of civil engineering. The nominee must be active with the ASCE students at an ABET accredited Civil Engineering program in the ASCE San Bernardino-Riverside. The nominee for this award should be a member of ASCE San Bernardino-Riverside.

Outstanding ASCE Life Member

Presented to an individual who is an active member of ASCE that has achieved Life Member status with outstanding professional qualities, reputation of engineering leadership and accomplishments, and continues to be a valuable resource to the Branch by contributing their expertise and experiences to our members. This award recognizes individuals who best exemplify the civil engineering profession. The nominees shall be worthy of acknowledgement through their exemplary professional conduct, reputation, achievement, and contribution to the image of the civil engineer. The candidate shall have technical experience, community service, engineering accomplishments and ASCE involvement. The nominee for this award should be a member of ASCE San Bernardino-Riverside.

Outstanding Civil Engineer in Service to ASCE Branch

The nominees shall be worthy of acknowledgement through their exemplary professional conduct, leadership, reputation, achievement, and contribution to the image of civil engineering. The nominee must be an Officer for the San Bernardino-Riverside Branch for the year the award is given. Presented to an engineer with outstanding service to ASCE Branch. The nominee for this award should be a member of ASCE San Bernardino-Riverside.

Outstanding Civil Engineer in Service to ASCE YMF

The nominees shall be worthy of acknowledgement through their exemplary professional conduct, leadership, reputation, achievement, and contribution to the image of civil engineering. The nominee must be an Officer for the San Bernardino-Riverside Younger Member Forum for the year the award is given. Presented to an engineer with outstanding service to ASCE Younger Member Forum. The nominee for this award should be a member of ASCE San Bernardino-Riverside.

Project Awards

Outstanding Civil Engineering Projects

These awards recognize the engineering efforts of both government organizations and private sector consultants in the completion of outstanding civil engineering projects. This award is intended to recognize projects that further advance the field of civil engineering through innovative concepts, research, and materials. Some of the criteria that can be used may include innovative approaches to funding, the use of advanced technologies and materials, and the immensity of the project.

Projects will be evaluated based on the following criteria: innovative design and/or construction benefit to the community, project complexity and/or challenges, impact on physical environment, unique operation or maintenance,



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aesthetics. Any civil engineering project currently in use and completed within the previous 18 months is eligible. The project must be located within the boundaries of the San Bernardino & Riverside Counties Branch.

Project nominations must select the category or categories that best fit the project. If you aren't sure go ahead and check it anyways. The Branch can decide if they agree with the category that you choose, so it's better if you choose a category even if it is a bit of a stretch. Please select all that apply. This will also allow us to submit your project to the section and region for consideration; successful projects at the Branch level get promoted up to the Los Angeles Section for selection, then to Region 9, and potentially to National within the same year in a successive trickle up fashion. This provide a great change at recognition at many levels!

All applications for the Outstanding Civil Engineering Project Awards shall include the following: completed award program entry form, description of the project and how it meets the above listed criteria (two-page limit), at least one color photograph or color photocopy of the project, copies of the newspaper or journal articles about the project, if applicable.

(NOMINATION FORM ATTACHED)



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Outstanding Candidate Awards (Please complete one form for each nomination)

Award Category for Consideration (please check [✓] one)

<input type="checkbox"/>	Outstanding Civil Engineer in the Public Sector	<input type="checkbox"/>	Outstanding Civil Engineering Student	<input type="checkbox"/>	Outstanding ASCE Life Member
<input type="checkbox"/>	Outstanding Civil Engineer in the Private Sector	<input type="checkbox"/>	Outstanding Civil Engineer in Community Service	<input type="checkbox"/>	Outstanding Civil Engineer in Service to ASCE Branch
<input type="checkbox"/>	Outstanding Younger Civil Engineer	<input type="checkbox"/>	Outstanding ASCE Faculty Advisor	<input type="checkbox"/>	Outstanding Civil Engineer in Service to ASCE YMF

Name: _____

Title: _____

Employer: _____

Address: _____

Phone: _____ E-Mail: _____

On a separate sheet of paper, please provide the following information about the nominee; education and professional registration, work experience, professional and society affiliations, patents, publications and presentations, community service and public education, honors and awards.

(The following must be completed with each nomination)

THIS NOMINATION HAS BEEN SUBMITTED BY:

Name: _____

Title: _____

Employer: _____

Address: _____

Phone: _____ E-Mail: _____

**All nomination forms and supporting documents are the property of the San Bernardino & Riverside Counties Branch and may be used at the Branch's discretion. Submittals will not be returned.*



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Outstanding Project Awards

(Please complete one form for each nomination)

OUTSTANDING CIVIL ENGINEERING PROJECT:

Award Category for Consideration (please check [✓] all that apply)

<input type="checkbox"/>	Airports & Ports Project	<input type="checkbox"/>	Environmental Engineering Project	<input type="checkbox"/>	Structural Engineering Project
<input type="checkbox"/>	Architectural Engineering Project	<input type="checkbox"/>	Flood Management Project	<input type="checkbox"/>	Sustainable Engineering Project
<input type="checkbox"/>	Bikeways & Trails Project	<input type="checkbox"/>	Geotechnical Project	<input type="checkbox"/>	Transportation Project
<input type="checkbox"/>	Bridge Project	<input type="checkbox"/>	Historical Renovation Project	<input type="checkbox"/>	Urban or Land Development Project
<input type="checkbox"/>	Community Improvement Project	<input type="checkbox"/>	Parks & Recreation Project	<input type="checkbox"/>	Water Project
<input type="checkbox"/>	Construction Project	<input type="checkbox"/>	Roadway & Highway Project	<input type="checkbox"/>	Water/Wastewater Treatment Project
<input type="checkbox"/>	Energy Project	<input type="checkbox"/>	Small Project	<input type="checkbox"/>	Other (Please Explain in Attachments)

Project Name: _____

Project Manager or Responsible Individual: _____

Project Address or Location: _____

Project Owner Name (Company): _____

Project Owner Contact Person: _____

Address: _____

Phone: _____ E-Mail: _____

On a separate document, please provide the following: 1) Description of the project; 2) Justify how the project stands out among others and why it is worthy of an award (considering previously mentioned criteria); and 3) Specify any relationships generated, obstacles to overcome and other accolades received. Include a color photograph of the project and any articles from trade journals or newspapers about the project.

(The following must be completed with each nomination)

THIS NOMINATION HAS BEEN SUBMITTED BY:

Name: _____

Title: _____

Employer: _____

Address: _____

Phone: _____ E-Mail: _____

**All nomination forms and supporting documents are the property of the San Bernardino & Riverside Counties Branch and may be used at the Branch's discretion. Submittals will not be returned.*

ASCE Continuing Education

Have you ever wanted an easy and convenient way to get continuing education right from your office? Do you enjoy advancing your professional knowledge so you can stay current in your field? Then ASCE has just what you are looking for!

The San Bernardino/Riverside Counties Branch has recently teamed with ASCE to promote their continuing education webinars in our area. You get trained by experts in the field, learn practical engineering skills in a convenient format, and earn continuing education units. When you use our promo code to register, the branch will receive 20 percent of the gross revenue from the webinar 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.

There are currently over 300 webinars planned over the next six months. Most are an hour and a half length so that you can easily fit them into your day. Many of the webinars are open to group participation, so you can feel free to share the experience with your office mates.

Take advantage of the chance to improve your engineering prowess and benefit the local branch at the same time!

Check out all of the great content available from ASCE and when ordering be sure to use Promo Code:

WEBSANBRIBRA

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



REQUEST FOR VOLUNTEERS

BRIEF SUMMARY:

My name is Kirill Volchinskiy, and I am reaching out in hopes of collaborating on a project. The project consists of four structures composing the educational center for Huerta del Valle, a community garden located in Ontario, San Bernadino County. The community garden provides plots for 60 families and currently holds educational programs. It is situated in a community disproportionately burdened by environmental pollution and unavailability of fresh, unprocessed food.

We've been working pro-bono on the project for the last 2 years, but we need help completing the plan check.

SCOPE OF WORK:

1. We are seeking a licensed engineer experienced in structural work (ideally SE or PE) who could review our calculations and wet-stamp our plans for the amphitheater and kitchen.
2. We are seeking an electrical engineer to finish our single line diagram and help coordinate the electrical components of the plan check with Edison and the building dept.

CURRENT STATUS:

Amphitheater:

- +the construction documents have gone through two revision cycles and only a few redlines need changes.
- we need an engineer of record to sign off on the architectural sheets. We didn't anticipate this as the city only recently started treating the project as commercial, and I was no longer allowed to sign the plans myself.

Shade structure + solar array:

- currently talking to service planner for Edison, in the process of requesting a new service entrance for our own 480/277 service.
- our EWB electrical engineer (Mohammad Shaikhsaheb) has expressed ambivalence in signing the electrical work; we will most likely need an electrical engineer of record. He has since withdrawn from the project citing a lack of time.
- +structural engineering is handled by Precision Structural Engineer

Portable Kitchen (shipping container structure):

- +the engineering has been completed by Ali Ismail (UCSD undergrad, EWB UCSD member) and Christopher Trautner (PhD, SE, PE). Kathy Rhee (PE) has worked with us to finish the calcs and select the mechanical components.
- we need an EWB mentor and engineer of record willing to review this work and sign off on the engineering sheets and calcs as well as the architectural sheets prepared by the CPP ARC team.

Library:

- +structural engineering and construction of rammed earth is handled by a rammed earth specialist and contractor based in Utah (Earth Wall Builders).

Thank you so much for your time.

Please Contact:
Kirill Volchinskiy
volchinskiy@gmail.com
415 602 0626

ASCE San Bernardino Riverside Board of Directors

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ASSOCIATES

Corporate Headquarters
3788 McCray Street | Riverside, CA 92506
T: 951.686.1070 | F: 951.788.1256

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Barstow, CA 92311
(760) 256-2068
Fax (760) 256-0418

Email: info@merrelljohnson.com

Business Card Ad

Contact ASCE Board member

Jeff Meiter, PE, LS

Branch Treasurer

jeff@valued-eng.com

Employment Opportunities

Be sure to check out career opportunities at ASCE's Career page at
<http://www.asce-sbriv.org/careers-1.html>

Calendar of Upcoming ASCE Events

April 21, 2017	Donald G. Wells Alumni Golf Tournament
April 21, 2017	YMF PE Booth and Happy Hour Social
April 22, 2017	YMF Softball Event
April 26, 2017	Stormwater Comitee Dinner
April 28, 2017	SBR Branch Board Meeting
April 28, 2017	YMF Skate Night
May 5 to 7, 2017	Las Vegas Technical Tour - Bellagio Foundations Tour
May 17, 2017	Geo Institute Presentation
May 20, 2017	GEMS Demonstration
June 9, 2017	SBR Branch Board Meeting
June 28, 2017	SBR Annual Awards Banquet

Membership Information

Types of Membership and Annual Dues (National)

Students:	FREE
Associate Member:	\$50 per year of Baccalaureate degree and first year after, then incremental increases to \$225 over five years.
Member:	\$225
Affiliate:	\$225

Section (Branch) Dues: \$55

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/> 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/> You will need your membership number. All payments must be made with a major credit card. An e-receipt is transmitted

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Chet Robinson, GE
951-304-2300
robinson@geoconinc.com

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Jeff Meiter, PE, LS
(909) 982-4601
jeff@valued-eng.com

