The school year has ended and many of our student members are moving on to a new career in engineering. In June, the Younger Member Forum (YMF) hosted their annual BBQ and it was exciting to see the energy our young engineers will bring into the workplace. I encourage the recent graduates to become involved with the YMF, then the Branches and Sections as they move forward in their careers.

Increase Member Involvement-
The Sacramento Section is looking to fill the Treasurer role for the 2014-2015 term. In addition, the Capital Branch is looking to fill the President-Elect, Treasurer and Secretary Roles. Serving as an officer at the Branch or Section level is a great way to become more involved with ASCE.

Increase ASCE Legislative Presence-
California passed its budget in the Senate in mid-June. The budget includes funds set aside for a rainy day fund and for infrastructure creation and restoration. Notably, the budget allocates $1.4 million to reinvigorate investigation of seismic faults thought to be active within California, funding for the High Speed Rail 25% Cap and Trade funds on an annual basis, a half billion dollars for transportation infrastructure projects, and funds to implement the Delta Water Plan.

Increase Interaction with Students and Younger Members-
As mentioned above, YMF hosted their annual BBQ social in June where they awarded several scholarships to Civil Engineering students. In July, YMF attended a Rivercats game.

In closing, I invite each of you to communicate your ideas to the Board of Directors. Please send your thoughts to asce@asce-sacto.org

Sincerely,
Kimberly Brown

Ballots Are In!
Please vote for 2014/2015 Sacramento Section and Capital Branch Officers
See pages 14-18.
The Engineerogram is the official publication of the Sacramento Section of the American Society of Civil Engineers and made available to ASCE members paying local dues to the Section. It is published regularly at the beginning of the month. To contribute articles, mail or e-mail to ASCE/Sacramento Section Executive Secretary, Michelle Zeiss, at asce@sacstateasce.org. Deadline for articles is on the 20th of the month prior to the issue.

Advertising Rates: Full Page $250 - A page is 7 1/2" x 9 1/2"
Half Page $130 - 1/2 page (either horizontal 7 1/2 x 4 3/4; or vertical 3 3/4 x 9 1/2) Quarter Page $75 - 3 3/4 x 4 1/4
Professional Card $150 for a full year - 2 1/2 x 1 1/2 (reduced down from 2 x 3 1/2); OR $175 for a full year for 2 x 3 1/2 size business card

Classified Ad in Newsletter or Website $50/100 words - no logo

(To our contributing writers: The Engineerogram reserves the right to make revisions, correct spelling and grammatical errors, to prioritize information and to summarize content. Articles may be shortened as editorial requirements dictate. Questions regarding this policy may be directed to the President of the Sacramento Section. Thank you for your understanding. Editors.)

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Structural Engineering Institute Natalie Calderone, P.E. 916-414-5800 natalie.calderone@aecc.com
Transportation & Development Institute Vacant

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California State University, Sacramento Travis Weston, President -
University of the Pacific Brylle Cabacungan, President b_cabacungan@u.pacific.edu
University of California, Davis Alex Vasquez and Jules Walton Co-Presidents ucd.asce_president@gmail.com

For more ASCE activities if you wish to be active in a committee, career opportunities, complete text for the legislative activities, go to the Sacramento Section web site at www.asce-sacto.org, or contact a current officer. To MAKE CHANGES OR RENEW YOUR MEMBERSHIP, go to website: www.asce.org. For MEMBERSHIP APPLICATIONS, please e-mail to memapp@asce.org.
# Master Calendar

<table>
<thead>
<tr>
<th>Date(s) Time(s)</th>
<th>Event</th>
<th>Location</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>AUGUST</strong></td>
<td></td>
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</tr>
<tr>
<td>Wednesday, August 16 5:30 p.m.</td>
<td>YMF August Mixer</td>
<td>David Ford Consulting – 2015 J Street #200 Sacramento</td>
<td>Bryan <a href="mailto:Perrin@usace.army.mil">Perrin@usace.army.mil</a></td>
</tr>
<tr>
<td>First Wednesday of each month 6:00 – 7:00</td>
<td>EWB Fund Raising</td>
<td>TBA (Eblast)</td>
<td><a href="mailto:ashmartin@ucdavis.edu">ashmartin@ucdavis.edu</a></td>
</tr>
<tr>
<td>Third Wednesday of each month 6:00 – 7:00</td>
<td>EWB Chapter Meeting</td>
<td>TBD</td>
<td>Rich Williams rich.williams@f dot.ca.gov</td>
</tr>
<tr>
<td>Monday, August 18 6:00 p.m.–7:30 p.m.</td>
<td>ASCE Sacramento Section Board Meeting</td>
<td>Engeo Office 2213 Plaza Drive, Rocklin</td>
<td>Kimberly Brown <a href="mailto:kimberly.brown@hdrinc.com">kimberly.brown@hdrinc.com</a></td>
</tr>
<tr>
<td>Thursday, August 21</td>
<td>Pile Load Testing Options Course</td>
<td>Sacramento, Ca</td>
<td><a href="http://www.piledrivers.org">www.piledrivers.org</a></td>
</tr>
<tr>
<td>Tuesday, August 26, 11:30-1</td>
<td>Capital Branch Lunch Meeting Devil’s Slide Presentation</td>
<td>Woodlake Hotel 500 Leisure Lane, Sacramento</td>
<td>Darren Mack <a href="mailto:dmack@sageengineers.com">dmack@sageengineers.com</a></td>
</tr>
<tr>
<td><strong>20th of each Month</strong></td>
<td>The Engineerogram – Content Deadline</td>
<td></td>
<td>Michelle Zeiss 916-961-2723 <a href="mailto:asce@sacce-sacto.org">asce@sacce-sacto.org</a></td>
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<tr>
<td><strong>SEPTEMBER</strong></td>
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<tr>
<td>Tuesday, Sept. 16 5:30</td>
<td>ASCE Section Installation &amp; Awards Banquet</td>
<td>Hilton Sacramento Arden, W 2200 Harvard, Sacramento</td>
<td>Kenwarjit Dosanjh <a href="mailto:Kenwarjit.Dosanjh@hdrinc.com">Kenwarjit.Dosanjh@hdrinc.com</a></td>
</tr>
</tbody>
</table>

## Sections

**Shasta Branch**
For more information about the Shasta Branch meetings, please contact Susan Goodwin at sgoodwin@vestra.com

**Feather River Branch**
For more information about the Feather River Branch meetings, please contact Amie McAllister at amie.steel@gmail.com

**Capital Branch**
For more information about the Capital Branch, you may e-mail or call Darren Mack, 916-677-4800, dmack@sageengineers.com

**Central Valley Branch**
For more information about the Central Valley Branch meetings, please contact Adam Killinger at 530-228-6003 or adam.killinger@crawford-inc.com

## Please Keep Your Membership Information Updated
Have you changed your membership information lately? Please go to the membership page of the ASCE National website to join, renew, or change your membership information. Please note that this is the only way that the Sacramento Section is able to receive your information in our database so that we may keep you informed about Section activities. http://www.asce.org/pplcontentwide.aspx?id=9641.

## Key Contact Program
ASCE provides numerous opportunities for you to be involved through your organization. One of the most interesting is the key contact program. As a key contact, you can access information that pertains to legislation that will impact you in your job. You will be able to research proposed legislation and write to your elected officials in response to issues that concern you. For information about ASCE key contacts visit http://www.asce.org/keycontacts
Save the Date

ASCE Section Awards & Installation Dinner
Date: Tuesday, September 16th
Time: 5:30pm (no host reception)
6:30pm (dinner)
Location: Hilton Sacramento Arden West
2200 Harvard St. Sacramento
Contact: Kenny Dosanjh
Kenwarjit.Dosanjh@hdrinc.com

Pile Load Testing Options Course
August 21, 2014. The PDCA will present this one-day course on Thursday, August 21, 2014, in Sacramento, CA.

The course is designed to provide detailed information on the various pile load testing methods, including Static, Rapid and Dynamic load testing. Additional presentations will feature a comprehensive overview of pile load testing, why load test, methods and types, and how a properly designed load test can provide substantial economic benefits. The course will conclude with a panel discussion, including all speakers and questions from the audience.

Who Should Attend:
Geotechnical, Structural and Civil Engineers, Contractors, Engineering Design Consultants, Suppliers of hammers and piles; as well as anyone responsible or involved in pile load test decisions. For more information visit: https://secure.piledrivers.org/files/d9517ce7-2575-47bf-bb64-5e6c313b3e7e--413b5f426224-486d-8fde83e9570206b7/plt-conference-brochure-draft-ii.pdf

2014 International Conference on Sustainable Infrastructure to be Held in Long Beach on November 6-8.

Later this year, ASCE is holding the 2014 International Conference on Sustainable Infrastructure in Long Beach. The conference is about how to deal with the consequences of non-sustainability, that is, how to plan, design, and construct infrastructure for a new and increasingly harsh operating environment.

This international conference is the first of its kind. It will bring together people from across the world; people who are building the knowledge base and developing the requisite policies and practices to handle the challenge of a changing operating environment. The conference is designed for practitioners, enabling them to engage with others, exchange ideas, and see the full spectrum of activities in infrastructure design for this new reality.

Tianjin University China is a co-sponsor of this conference. There will be two sessions dedicated to the challenges faced by and progress towards sustainable urban infrastructure development in China.

For more information visit: www.asce.org/icsi2014
**Ballot for Board of Directors 2014-2015**
The ballot for the Capital Branch Board of Directors for the 2014-15 term is on page 17 – 19. Please vote for one person for each office (write-ins accepted) and return the ballot to the ASCE Sacramento Section Capital Branch by August 22, 2014. See instructions on ballot.

**Capital Branch Lunch Meeting**
The lunch will be Tuesday, August 26 at the Woodlake Hotel and Conference Center, 500 Leisure Lane, Sacramento, 11:30 am to 1 pm. Tom Grey of Caltrans will present on the Devil’s Slide tunnel project. Mr. Grey will discuss the New Austrian Tunneling Method (NATM), otherwise known as the Sequential Excavation Method (SEM) which was used to excavate the two tunnels on Route 1. Some of the challenges included: excavating through constantly varying ground conditions; working 24 hours a day/ six days a week; verifying all the utility conduits were installed properly prior to final lining; and properly integrating all the tunnel systems into the Tunnel Control System software and hardware. Other challenges were wetlands, wildlife, plants, noise and visual impacts due to this construction. A context sensitive solution to the vexing problem of slides on this stretch of Route 1, hugging a coast that has unsurpassed scenic beauty, was found by constructing tunnels and a bridge spanning over an environmentally sensitive area.

**Capital Branch Member Survey**
In an effort to better understand our members’ needs and how we can best serve them, the Capital Branch Board has prepared a brief survey. The survey addresses topics such as meeting frequency, type, location, and information distribution.

The survey should take less than 5 minutes to complete, and will provide valuable information to our Board to help shape our future direction. We appreciate your time in completing this survey, and hope to hear from all of you. The survey can be accessed at https://www.surveymonkey.com/s/6CPKLK5.

**Capital Branch LinkedIn Page**
Join us on LinkedIn. The Capital Branch has started a Group Page to make it easier to post announcements about upcoming events of interest to Civil Engineers in the Sacramento area. To join the group page go to http://goo.gl/JxrxCS.
YMF OFFICER ELECTIONS

It’s time for officer elections at our business meeting. If you want learn how you can become more active in YMF-Sacramento, then you will not want to miss this important meeting. Come and run for an officer position. This is a great opportunity to get involved. If you are unable to come but would still like to become more involved, please contact the current chair to learn more about our exciting upcoming events. Dinner and drinks will be provided and the meeting is free to everyone. RSVP is not required.

AUGUST MIXER

Join us Wednesday, August 13 for a night of networking and a technical presentation (Location: David Ford Consulting – 2015 J Street #200 Sacramento, CA 95811). Festivities begin at 5:30 PM. All members, students, and non-members are welcome! This will be a great opportunity to meet other young civil engineers in the Sacramento community. Food and soft drinks will be provided. RSVP is not required. Technical Presentation by Shauna England of the US Army Corps of Engineers.

- Project Engineer for the US Army Corps of Engineer
- Graduate of California State University, Chico in 2010 with B.S. in Civil Engineering
- Current ASCE YMF President

Presentation Topic: Slurry walls (cutoff walls) and levees and their applications in flood control and protection. This presentation will touch on general flood protection of the greater Sacramento area, construction techniques, and the current drought situation.

Contact: Bryan.Perrin@usace.army.mil

EDUCATION COMMITTEE

ASCE YMF needs members for the Education Committee. The Education Committee is responsible for helping out with the organization of the bi-annual PE Reviews. The PE Review is the primary source of funding that supports our branch and we need volunteers to help with the committee. It's a great way to get involved with YMF and a good networking opportunity. In addition, committee members receive a discount on the PE Review course registration.

PE REVIEW COURSES

ASCE YMF will begin registration for our PE Review Courses for the October 2014 exam. Registration will begin on July 1st, 2014. YMF will be offering review courses in all three tests, Surveying, Seismic, and 8-hour. For more information please contact your Education Committee Chairs Chris Burlaza or Heidi Chou at pereview@sacymf.org.

ANNUAL SCHOLARSHIP AWARD BBQ

On Wednesday, June 4th, 2014 ASCE YMF honored our scholarship award winners at the annual YMF BBQ. Awards ranged from $500 to $1000 dollars. Congratulations to all our recipients! We wish them the best of luck in their future endeavors. YMF awards scholarships to students each year! If you, or somebody you know, attends UOP, Sac State, UC Davis, or Chico State please make sure to apply at www.sacymf.org to be considered!

Congratulations to our Scholarship Winners:

Eman Hosseini-Bidokhti  UC Davis
Karen Kulesza  Sac State
Micaela Nino  UOP
Eric Neill  UC Davis
Sean Ornelaslinter  Sac State
Natalie Mall  UC Davis
Brent Ducker  Sac State
Engineers Without Borders  
http://www.ewb-sac.org/

Next Chapter Meeting  
Wednesday, August 20, 2014, 6:00–7:00 PM  
Location –  
If you would like to make a presentation on a technical topic or other EWB-related topics at one of our monthly chapter meetings, or if you would like to host a monthly meeting at your office, please contact Rich Williams at (rich.williams@dot.ca.gov).

Project Updates  
Shisasari  
The travel team is set and plane tickets have been purchased. The team will leave Sacramento on September 7 and return on September 18. Bruce Hilton (project manager), Sandy Hilton (education), Byron Anderson (lead designer), Carla Aguilar (education), and Joe Zilles (water quality testing) are on the travel team.

KEK  
The team continues to work on the Draft Final Design Report (524). Some of the outstanding items include profile drawings, quantity calculations, estimate, and draft MOU.

Fundraising  
Rafting Opportunity  
American River Raft Rentals donated a free 4-person raft trip down the American River from Sunrise Blvd to River Bend Park (a $65 value). However, it expires on September 15, which is obviously too soon for our October 23 fundraising dinner. So we need to auction it off now. If you are interested, please send your bid ($50 minimum) to rich.williams@dot.ca.gov by July 16.

Monthly Fundraising Meeting  
Wednesday, August 6, 2014, 6:00–7:00 PM  
Location – Track 7 Brewing Co. 3747 W Pacific Ave #F, Sacramento  
We will be holding our monthly fundraising meeting to plan our upcoming fall fundraising event and grant writing. If you are interested in helping, please attend a meeting or email Ashley Martin (ashmartin@ucdavis.edu).

First Gold Sponsorship for Upcoming Fundraising Dinner  
We are happy to announce that we have our first gold sponsorship of $500 from GEI Consultants for our Fundraising Dinner and Silent Auction that will be held in October. This is a great start to a very exciting event.

Save the Date: Fundraising Dinner and Silent Auction  
Thursday, October 23, 2014  
Location – Club Pheasant, West Sacramento

Other Announcements  
Officer Nominations  
We are still accepting officer nominations. If you would like to run for office (you can nominate yourself), or would like to nominate somebody else for president, vice president, treasurer, or secretary, please send your nominations to John McMillan (john.mcmillan@dot.ca.gov) by July 15.

West Coast Region Facebook Page  
The UC Davis chapter has established a Facebook page for the West Coast Region. Members are encouraged to join the group and share their EWB experiences and lessons learned. In order to join, go to the following page and request to be added to the group.  
https://www.facebook.com/groups/556546414452498
**July Legislative Update**

Richard Markuson  
Region 9 Legislative Advocate  
and  
Shahn Ahmed  
Chair, Region 9 Government Relations Committee

**Region 9 “Drive-In”**  
For 2014, Region 9 replaced its annual State Capitol Fly-in with regional drive-ins where ASCE members visited their Assembly Members and State Senators in the Legislator’s district office as opposed to flying to Sacramento to visit in the Capitol. Instead of making 4-5 visits on a fixed date, ASCE members made one or two visits with their Assembly Member and/or State Senator to introduce ASCE, explain our core values and policy goals and make, what we hope will be, long lasting connections to engage on issues that affect civil engineers and the built environment. While results varied from Section to Section, those who participated found the alternative as valuable or more valuable to the fly-in and almost 70% met directly with the Legislator. Region 9 will hold its annual Sacramento fly-in next year and will make a decision at a later date about future plans for the drive-in.

**Water Bonds**  
The Senate Environmental Quality Committee approved **AB 1331** (Rendon D-Lakewood) that replaces the $11.14B water bond that is currently on the November 2014 ballot with a new $8B general obligation bond titled, “Clean, Safe, and Reliable Drinking Water Act of 2014.”

The bond allocates $1.0 b for Clean and Safe Drinking Water, $1.5 b for Protecting Rivers, Lakes, Streams, Coastal Waters, and Watersheds, $2.0 b for Climate Change and Drought Preparedness for Regional Water Security, $1.0 b for Delta sustainability, and $2.5 b for water storage.

**AB 1331** was double-referred to Senate Committees on Natural Resources & Water and Environmental Quality. This bill was heard by the Senate Natural Resources & Water Committee on March 25, 2014, and passed out with a vote of 7-2. The next hearing is on June 11 in the Governance and Finance Committee.

**Fracking**  
**AB 2420** (Nazarian D-Sherman Oaks) that would have allowed a city or county to adopt and enforce a local ordinance prohibiting well stimulation treatments died in the Assembly. **SB 1132** (Mitchell D-Los Angeles) that would have prohibited further well stimulation treatments until an independent scientific study was completed and reviewed by a committee composed of a representative from the Natural Resources Agency, California Environmental Protection Agency, CARB, SWRCB, and Department of Public Health died in the Senate on a 16-16 vote. **SB 1281** (Pavley D-Agoura Hills) that would reiterate and revise state policy on water use in the oil and gas fields and expand upon monthly reporting requirements is the “last man standing.” It is awaiting its first hearing in the Assembly.

**Groundwater**  
The Assembly, on a 48-24 vote, approved **AB 1739** (Dickinson D-Sacramento) that requires sustainable groundwater management in all groundwater subbasins determined by the Department of Water Resources (DWR) to be at medium to high risk of significant impacts due to groundwater extractions exceeding the ability of the surface water supplies to replenish the subbasin. The Senate Sustainable Groundwater Management Act **SB 1168** (Pavley D-Agoura Hills) was approved on a 24-12 vote and sent to the Assembly.

**Project Delivery**  
Neither ASCE supported measures that would prohibit the use of truck weight fee revenues to pay debt service on transportation general obligation bonds were approved by their respective houses and have died. Both **AB 2728** (Perea & Linder) and **SB 1418** (DeSaulnier D-Concord) were held under submission. That doesn’t mean the issue is dead - this issue will be considered in the budget process, where competing needs for the General Fund can be weighed against each other to establish the Legislature's funding priorities.

Two ASCE supported design/build bills advanced. **SB 268** (Gaines R-Rocklin) was signed by Governor Brown. It is a modest expansion of d/b for health-care facilities. The Senate approved **SB 1433** (Hill D-San Mateo) that expands d/b for some transit related construction.

**Water Conservation**  
**AB 2636** (Gatto D-Los Angeles) would establish the CalConserve Water Use Efficiency Revolving Fund and provide that the moneys in the fund are available to the Department of Water Resources, for water use efficiency projects. This fund would be used for at-or-below market interest rate loans and would permit the department to enter into agreements with local governments or investor-
owned utilities that provide water or recycled water service to provide loans. The bill, because of its cost—is on suspense.

The Senate Natural Resources and Water Committee approved the chair’s SB 1259 (Pavley D-) that authorizes DWR to initiate investigations and gather data as needed to study the loss of storage capacity behind dams resulting from siltation. The results of any siltation study would be reflected in the quinquennial update of the California Water Plan.

The Department of Finance released Population and Housing Estimates for Cities, Counties, and the State as of January 1, 2014; it reports the state’s population at 38,340,000 as of Jan.1, 2014, having grown by 356,000 in 2013; also reports 59,426 housing units were added in 2013 with largest net gains in Los Angeles (7,181), Irvine (4,186), San Jose (3,578), San Diego (3,033) and San Francisco (2,377); it found “many rural areas continued to experience population decline.”

The California Water Foundation has released Recommendations for Sustainable Groundwater Management: Developed Through a Stakeholder Dialogue, recommends authorizing state to provide enforcement, “when necessary,” to ensure sustainable groundwater management goals are achieved.

Inland Empire Economic Partnership has released California Energy Policy & The Inland Empire, recommendations include that “given its potential to increase the competitiveness of sectors like manufacturing in California, the development of the Monterey Shale for oil and gas should be a high priority, subject to appropriate environmental and safety concern. This is potentially an asset to the kind of blue collar job creation needed by marginally educated workers throughout the state.”

The Legislative Analyst’s Office has released The 2014-15 Budget: Capital Outlay Support Program Review.

California Air Resources Board has released its report California Greenhouse Gas Emission Inventory: 2000-2012, outlines total amount of greenhouse gases emitted from all sectors of California's economy, findings include: “the state's gross domestic product grew by 5 percent from 2009 to 2012 while the carbon intensity, the amount of carbon pollution related to the state's overall economy, has fallen steadily over the same time period.”

Next 10 releases The 2014 California Green Innovation Index, reviews new trends in clean technology adoption, patents, energy efficiency, energy storage, etc., also identifies clean energy economic trends by region.

The Delta Protection Commission releases three simulations of BDCP impact on Delta communities, shows before, during and after views of construction for intake facilities for BDCP tunnels; also release YouTube video, say depictions “of proposed tunnel intakes and facilities were not adequately presented in the BDCP documents.” Simulations here, here and here. Video here.

The Center for Technology Innovation at Brookings Institution issued Products Liability and Driverless Cars: Issues and Guiding Principles for Legislation. This paper provides a discussion of how products liability law will impact autonomous vehicles, and provides a set of guiding principles for legislation that should—and that should not—be enacted.

OEHHA has announced that CalEnviroScreen, an analysis tool that evaluates the vulnerability of geographic populations to environmental pollution, has undergone a significant update. The tool looks at both the presence of environmental contaminants that increase a community’s overall pollution burden and demographic factors influencing the ability of the community to withstand that level of pollution. Version 2.0 includes a number of changes that may lead to better over-all measures. This version increases the level of geographic precision used in pollution analysis, adds new indicators, including drinking water quality and unemployment rate data, and makes several adjustments to underlying models. CalEnviroScreen 2.0 is currently in draft form.

The Chaddick Institute for Metropolitan Development released The Traveler’s Tradeoff: Comparing Intercity Bus, Plane, & Train Fares Across the United States. This study evaluates the prices of travel on various modes of transportation—air, bus, and rail—in 52 city pairs in the United States with travel distances between 100 and 500 miles…. The results show that “the differences in fares between modes are significant and larger than is commonly believed: intercity bus fares are 50-55% lower than on Amtrak, depending on the A/P scenario; single-occupant driving is substantially more expensive than bus travel, even for motorists who consider only the cost of fuel and tolls; the savings from traveling by bus and trains in comparison to air diminish sharply when trip distances are longer than 250 miles.”
U.S. Global Change Research Program released *Global Climate Change Impacts in the United States*. “This [National Climate Assessment] report assesses the science of climate change and its impacts across the United States, now and throughout this century…. [It] documents climate change-related impacts and responses for various sectors and regions, with the goal of better informing public and private decision-making at all levels.” California is expected to see declining snowpack and stream flow rates. Increased drought is also expected to lead to increased risk from wildfires and damaging impacts on crop production. The report projects that California’s coastal areas will experience increased flooding and erosion along with rising sea levels that pose a threat to low-lying communities.”

U.S. Geological Survey released *Status of Groundwater Quality in the Borrego Valley, Central Desert, and Low-Use Basins of the Mojave and Sonoran Deserts Study Unit, 2008-2010: California GAMA Priority Basin Project*. This study evaluates the quality of untreated groundwater in aquifers near public-supply wells across the Mojave and Sonoran deserts.

Samples from 52 wells were analyzed for volatile organic compounds, pesticides, and naturally-occurring inorganic constituents such as major ions and trace elements. Inorganic compounds were detected at high or moderate relative-concentrations in 48% and 26% of the wells, respectively. Organic compounds were detected at moderate relative-concentrations in 5% of the wells, and were either not detected at all or detected only at low relative-concentrations in the remaining 95%.

**Appointments**

The Governor has made the following appointments:

As supervisor of the California Department of Conservation Division of Oil, Gas and Geothermal Resources: **Steven Bohlen**, from Sonoma, program director at the Lawrence Livermore National Laboratory.

As federal transportation liaison at the California Department of Transportation and the California High-Speed Rail Authority: **Giles Giovinazzi**, Springfield, Virginia, Democrat, staff director for the Subcommittee on Aviation at the US House of Representatives Committee on Transportation and Infrastructure.

To Delta Stewardship Council: **Susan Tatyon**, Rocklin, associate director at the Nature Conservancy.

At the California Natural Resources Agency: As deputy secretary for water policy: **Karla Nemeth**, Sacramento, formerly Bay Delta Conservation Plan project manager, same agency, as special assistant for water policy: **Kristopher Tjernell**, Sacramento, policy consultant for the Conservation Strategy Group.

**August Legislative Update**

*By Richard Markuson*  
*Region 9 Legislative Advocate*

**Water Bond**

While work continued on a new water bond, Governor Brown signaled he might support a bond of around $6 billion with $2 billion devoted to storage. It is unclear if there would be sufficient votes in both houses to support a replacement bond of this amount. As a ballot measure – it requires a 2/3 vote.

**Infrastructure**

While the Governor embraced Infrastructure Financing Districts as a replacement for Redevelopment Districts when he released the proposed State budget in January as a part of his $10 billion commitment to infrastructure IFDs were MIA when the final version was delivered to Brown for his signature. The budget did include $250 million in cap-and-trade revenue to fund construction of California’s High Speed rail project, with 25 percent of carbon emission funds going to the project in future years. Neither of the two ASCE supported IFD bills (AB 229 and AB 243) will go to the Governor this year.

**Design/Build**

The Assembly Transportation Committee approved ASCE supported **SB 1433** by Senator Hill (D-San Mateo) that repeals the sunset date on transit operators' authority to use design-build (DB) for transit projects, expands the number of entities eligible to exercise this authority, eliminates minimum cost thresholds, and deletes reporting requirements.

Another bill - **AB 1724** by Assembly Member Frazier (D-Oakley) that authorizes regional transportation agencies (RTAs) to use construction manager/general contractor (CMGC) contracts is not doing as well and appears to have stalled out because of opposition.

**Greenhouse Gases**
The Senate Environmental Quality Committee approved AB 1447 by Assembly Member Waldron (R-Escondido) that will authorize moneys in the Greenhouse Gas Reduction Fund to be allocated for investment in a traffic signal synchronization project as a sustainable infrastructure project if the project is designed and implemented to achieve cost-effective reductions in greenhouse gas emissions and includes specific reduction targets and metrics to evaluate the project's effect.

Recent Reports
The University of Southern California and the Los Angeles Times released results of a recent poll, that found nearly 9 in 10 voters say the drought is a "crisis or major problem" but that only 16% of voters said it had made a "major impact" on them.

The Community Alliance with Family Farmers released "Beyond the Irrigation District: Investing in On-Farm Water Stewardship for California’s Future," that examined water bonds approved through Props. 50 and 84, and found "few dollars went toward supporting farmers in improving water use efficiency" and "urban projects have received more funding than agriculture projects."

California Common Sense has released “Unsustainable California: The Top 10 Issues Facing the Golden State,” top three are: 1. water supply, 2. revenue uncertainty, 3. wall of debt

The California Research Bureau has released: "Water Conservation in California: State Law and Local Enforcement," it found 42 unmetered communities "use 39% more water per capita than the state average."

The California Water Foundation has released a poll, conducted by Fairbank, Maslin, Maullin, Metz and Associates and Public Opinion Strategies, findings included: 85% of Californians continue to view the drought as a "very serious" or "serious" problem; and 94 percent said protecting and regulating groundwater needs to be considered in managing future droughts.


The California Homebuilding Foundation released "Codes and Standards Consulting: California’s Residential Indoor Water Use," it found a typical family home with four occupants built after adoption of CalGreen water standards in 2010 will annually consume approximately 46,500 gallons of water for indoor use, which is 29,000 gallons fewer compared to similar homes circa 2005 and 46,000 gallons fewer compared to homes circa 1980.

The U.S. Census Bureau released Modes Less Traveled—Bicycling and Walking to Work in the United States: 2008-2012. “This report highlights the geographic, social, and economic dimensions that shape work-related travel by bicycle and walking. It unpacks the local variation overlooked in national snapshots of nonmotorized commuting rates and it reinforces that local factors play an important role in shaping travel behavior.”

The Metropolitan Policy Program at Brookings Institution released Beyond Shovel Ready: The Extent and Impact of U.S. Infrastructure Jobs. “This report aims to define a more precise range of jobs in occupations and industries that play a distinct role in the design, construction, operation, and governance of the nation’s infrastructure assets. It explores where this employment is concentrated nationally and provides insight into the wages, projections, and skills required for these jobs.”

The Eno Center for Transportation released Partnership Financing: Improving Transportation Infrastructure Through Public Private Partnerships. “This study, a product of the Eno P3 Working Group, examines state and local experience with transportation projects that contained a private financing component in an effort to identify the most common and persistent barriers to making P3s work in the U.S. context and to illustrate specific methods, actions, and/or approaches that have been effective in overcoming current barriers…. Drawing from the Working Group’s findings, this report outlines a series of observations and recommendations to help state and federal officials—including staff at transportation and other relevant government agencies, as well as elected officials and legislative staff—create policy environments that are conducive to making P3s work for the public good.”

Appointments
The Governor has made the following appointments:

To North Coast Regional Water Quality Control Board: Valerie Lara Minton, Petaluma, program director at the Sonoma resource Conservation District

To California Board for Professional Engineers, Land Surveyors, and Geologists (all reappointed): Kathy Jones
Irish, Los Angeles, vice president at Arnie Berghoff and Associates; Mohammad Qureshi, Redlands, chief of traffic at the San Bernardino County Dept. of Public Works

To Alfred E. Alquist Seismic Safety Commission: Ian Parkinson, San Luis Obispo, sheriff-coroner at the San Luis Obispo Sheriff’s Office.

Disaster Preparedness Committee

By: Ziad Mazbouni, PE, F. ASCE, Region 9 Chair

Are you READY? If not, what can you do to help?

Here are some statistics: There have been: (M1.5 or greater)

- 72 earthquakes today (June 30, 2014)
- 661 earthquakes in the past 7 days
- 2,969 earthquakes in the past month
- 37,867 earthquakes in the past year

Some of us remember the 1994 Northridge earthquake others probably want to forget the San Francisco/Oakland earthquake (known as the Loma Prieta earthquake) of 1989, or the Calexico earthquake of 2010, or even the most recent La Habra earthquake of 2014. Earthquakes cause damage, sometimes a lot of damage and can impact communities significantly. We avoid thinking about them, think that they won’t happen, are reminded at various annual events that they would come, the Big One is coming! Some of us think about it, worry, prepare to protect their family, but time passes and nothing happens until the next one shakes us then we are reminded that it could happen. Well, just like death and taxes, the matter of fact is that earthquakes will take place in California. Sometimes, we will be lucky and we will have a gentle roll, but others will not be as forgiving and will give us the shake of our life. In addition to us shaking, structures and facilities will shake and sometimes to the point of failure or partial failure. As part of the California Office of Emergency Service (CalOES)’s way of dealing with quakes, staff developed a Safety Assessment Program to help evaluate the amount of damage caused to structures, and to mostly allow people to get as fast as possible back into their homes.

When I ask if you are ready, I mean, are you ready to help yourself, your family, your colleagues and your neighbors, then your community if anything goes really bad. As this is the first and most important task, I suggest that if you have not done so already, you should take a First Aid and CPR class, prepare a disaster response plan for you and your family, for your work area. These are the basic actions that would pay off following a disaster. The next would include joining a Community Emergency Response Team (CERT). This Program educates people about disaster preparedness for hazards that may impact their area and trains them in basic disaster response skills, such as fire safety, light search and rescue, team organization, and disaster medical operations. Using the training learned in the classroom and during exercises, CERT members can assist others in their neighborhood or workplace following an event when professional responders are not immediately available to help. CERT members also are encouraged to support emergency response agencies by taking a more active role in emergency preparedness projects in their community. As a Civil Engineer, you may be able to help in a way that a fireman or a policeman may not be able to, put a roof over a family’s heads. The American Society of Civil Engineers, Region 9, is a partner with CalOES and is an approved professional organization that trains its members, and assists in case of a disaster by deploying volunteers at the request of CalOES to evaluate structures for occupancy. As civil engineers, we can help the public following a disaster, because volunteers will make a difference between people spending the nights in a shelter or in their own bed. The Federal government, the State of California and local government will be overwhelmed in case of a large disaster and they will need volunteers to assist. So, we train volunteers in various parts of California, so that we have enough trained members able to assist. This training is sanctioned through the Governor’s Office of Emergency Services. Each qualified participant will receive a Post Disaster Inspection Identification Card issued by the Governor’s Office of Emergency Services. This full-day training will provide guidelines and procedures for making post disaster building safety evaluations. The purpose of these evaluations is to determine whether damaged or partially damaged buildings are safe for use or if entry should be restricted or prohibited. We currently have over 650 out of a membership of 19,000 trained evaluators Statewide. That is about 3% of the total number of members. The plan is to have as many of our members as possible certified, with an initial goal of 10%. ASCE will hold training throughout the State to increase the number of volunteers. We hope to have a disaster preparedness committee in every section and
hopefully some day in every branch. If you are interested in becoming a part of the disaster preparedness committee at the leadership level, please contact me to discuss your interest. We also plan on holding “train the trainer” classes, so that we can increase the number of classes provided statewide. If you are interested in becoming an instructor, please e-mail me. One of the issues we encounter following a disaster or during drills is that we cannot contact some members who were trained. If you have been trained, please update your ASCE membership information to reflect your latest job, e-mail address, provide alternate e-mail address such as your personal e-mail, cell phone number. We need to be able to contact you in case of a disaster, so if you change jobs or move, please update your information. For further information or to contact me, please e-mail me at asce.r9.disasterpreparedness@gmail.com

Institute Update
San Diego Section Geo-Institute Local Chapter

By Jillian Gattuso, P.E.
Chair, San Diego Section Geo-Institute
The ASCE Geo-Institute San Diego Chapter consists of roughly 40 members and our monthly meetings are typically held on the fourth Wednesday of every month. At each meeting, a geotechnical professional gives a presentation regarding modern practice and design techniques both in the local community and around the world. This year’s board includes Jillian Gattuso (Chair), Madan Chirumalla (Vice Chair), and Cyndi Lopez (Secretary/Treasurer).

Our group has been honored to have some very well-known speakers in the Geotechnical field present to us, including Bob Holtz and Craig Benson last year. We are working hard to continue to bring in exciting speakers to present to our group.

Our meetings consist of a social hour and dinner beginning at 6:00 pm, followed by a presentation that lasts approximately an hour with a question and answer session at the end. We encourage anyone who is interested in geotechnical engineering, seismic design, and geology to attend.

This year’s previous speakers/presentations included:

- **Sept 25, 2013** – Dr. Annie Kammerer, Nuclear Regulatory Commission: “Seismic Design and Risk Evaluation of Nuclear Plants” (Joint meeting with EERI, SDAG, and SEAOSD)
- **Oct 22, 2013** – Dr. Jorge Meneses, GEI Consultants: “Challenges to Engineering Design from Extreme Events” (Joint Meeting with ASCE San Diego General Chapter)
- **Feb 26, 2014** – Emil Rudolph, Ninyo & Moore: “Site geology, Various Foundation Options Employed, and Construction Challenges of the San Ysidro Land Port of Entry Redevelopment”
- **Apr 23, 2014** – Dr. Julio Valdes, San Diego State University: “Selected Studies of Soil Particle Breakage”
- **May 28, 2014** – Dr. Anne Lemnitzer, University of California, Irvine: “Seismic Deformation Potential of Peat Beneath Levees”

For those who would like more information, the Geo-Institute San Diego Chapter maintains our web page on the ASCE San Diego Section website under the “Groups” tab. The contact information for the board is also there and we are more than happy to add anyone interested to our mailing list.
The President-Elect is a three-year commitment with the first year serving as President-Elect, followed by President and Past-President. As President-Elect, you are responsible for assisting the President. As President, you oversee the Section as a whole including board meetings, newsletter, award dinners, and Branches, Institutes, Younger Member Groups and Student Chapters. As Past-President you will be in an advisory position to the President.

Candidate Statement For:

Louay Owaidat

Mr. Owaidat is President and Chief Executive Officer of Magnus Pacific Corporation, a national environmental and geotechnical construction company. Mr. Owaidat holds a B.S. in Civil Engineering from the University of Missouri, Rolla, MO and an M.S. in Construction Management from Washington University, St. Louis, MO. Over his twenty-four year career Mr. Owaidat has successfully overseen the construction of more than 300 specialty environmental, civil and geotechnical construction projects with a combined total value of more than $500 million. Mr. Owaidat has authored or co-authored twelve technical papers on levees, soil improvement and slurry wall construction. Mr. Owaidat actively supports his community. He chairs the scholarship fundraising committee of the Construction Institute, organizes fundraising events for St. Jude Children’s Hospital, and serves as a volunteer soccer coach and sponsor for a local youth soccer league. He is a member of the Board of Trustees of Sacramento Country Day School, and a member of the Board of Directors of Boca Youth Soccer Academy. He resides in Roseville, California with his wife Maya and his children Hana, Julia and Malek.

☐ Check Box to select Candidate

Other Write-Ins Accepted: ________________________________

JUNIOR DIRECTOR

The Junior Director is a two-year commitment with the second year serving as Senior Director. The primary responsibilities of the Junior and Senior directors are organizing the Project Awards banquet in the spring and the Individual Awards banquet in the fall.

Candidate Statement For:

Marie Silveira, P.E.

Ms. Silveira has been actively involved with ASCE in the Sacramento area for the past six years. She has held several chair and officer positions for Sacramento’s Younger Member Forum (YMF) and is currently completing my three-year commitment as Vice President, President, and Executive Director. In 2013, Sacramento YMF hosted the Western Regional Younger Member Council (WRYMC), the annual meeting, for which she served as Social Chair. She was responsible for planning and executing all of the social activities including the Thursday optional day and evening outings and Friday social activity between students, Younger Members, and Section/Branch Leaders. As Junior Director, she aims to bring more attention to the Project Awards banquet and the Individual Award banquet, and to make the events fun opportunities for networking. Professionally, she has worded in the Civil Engineering industry for 10 years providing site civil engineering design solutions for clients in the private, Municipal, State, and Federal sectors. When she is not working, she likes running, experimenting with new recipes, and generally spending time with friends outside.

☐ Check Box to select Candidate

Write-Ins Accepted: ________________________________
EXECUTIVE DIRECTOR
The Executive Director is a two-year commitment and shall have held office on the Sacramento Section Board. The Executive Director is an advisory position.

Candidate Statement For:
Thor Larsen, P.E.

Mr. Larsen has been active as an Officer in the American Society of Civil Engineers since 2005. He has worked as Treasurer, Junior Director, Senior Director and President for the Section and has served as President for the Capital Branch. He has led effort to increase ASCE membership, been instrumental in submitting projects for the annual Section Project of the Year Awards and organized the Capital branch monthly luncheons. Thor’s civil engineering career began in 1982 after graduation from Montana State University. He has worked primarily in construction engineering for large transportation projects with specialty in highways and bridges. He has worked for 25 years in public service (Caltrans and El Dorado County) and 8 years for private engineering firms.

☐ Check Box to select Candidate

Other Write-Ins Accepted: _________________________________________________________

TREASURER
The Treasurer is a two-year commitment. The Treasurer is responsible for the finances of the Section.

No candidates nominated

Write-Ins Accepted: ______________________________________________________________

SECRETARY
The Secretary is a one-year commitment. The Secretary is responsible for taking the minutes at each Board meeting and distributing the minutes for review. The Secretary is also responsible for all e-mail correspondence between the Section and its members.

Candidate Statement For:
Keith Flaherty, P.E.

Mr. Flaherty is a recent member of ASCE but has been active in the industry for over 30 years. He is a graduate of UC Davis and has worked for The Army Corps of Engineers, and Caltrans and is currently a Senior Vice President at Vali Cooper and Associates Inc. While he has been involved in design and various other aspects of Civil Engineering, he is currently working in the Construction Management portion of the industry. When not working, he likes to fish and hunt. (see picture of his hunting dog). He also likes to spend time with his family, children and grandchildren.

☐ Check Box to select Candidate

Write-Ins Accepted: ______________________________________________________________
SACRAMENTO SECTION CAPITAL BRANCH BALLOT 2014 – 2015 OFFICERS

Please vote for one person for each office (write-ins accepted) and return this Ballot to the ASCE Sacramento Section Capital Branch by August 22, 2014. Email your vote to the ASCE Capital Branch.

- Place an “X” (X) to denote your vote (only one “X” per position)
- E-mail your scanned ballot: asce@asce-sacto.org

Please include your ASCE Membership Number: ____________________________.

You may call ASCE National at 1-800-548-2773 for assistance with membership.

I. PRESIDENT-ELECT
   1) Write-In Selection: ____________________________________________
      (ASCE membership must be current; verification required)

II. VICE-PRESIDENT OF EDUCATION
   1) Jairaj Singh, PE (___)

I am a Civil Engineer with over 19 years of experience in the field of commercial land development. I have lived in Sacramento area for the past 15 years and have been with RSC Engineering, Inc. since 2004.

Recently, I have become actively involved with the Sacramento Capital Branch. Over the past 10 years, I have also been involved with the Active 20-30 Club of Sacramento, a community service organization that supports local youth. As a member of the Active 20-30 Club, I co-chaired several events such as Blood Drive, Back to School Shopping-Spree for under-privileged kids and organized meetings with other community service organizations.

As the Vice-President of Education, my goal will be to reach out to a diverse group of accomplished Engineers to have them present interesting past, present and future projects during ASCE luncheon meetings. I will seek topics that will educate members from all backgrounds of civil engineering, and allow for a healthy discussion that enhances the quality of the meetings.

2) Write-In Selection: ____________________________________________
   (ASCE membership must be current; verification required)
III. VICE-PRESIDENT OF MEMBERSHIP (New Position)
   1) Dr. Om Prakash, Ph.D., PE (___)

   Dr. Om Prakash is a Senior Hydraulic Engineer with WEST Consultants, Inc. and has more than 12 years of international experience ranging from flood forecasting to dam design. Prior to joining WEST, Dr. Prakash had worked on many hydrologic and hydraulics modeling projects in India and abroad. He has worked extensively on the application of HEC Models in the design of Integrated water management projects and also on hydropower projects in India, Cambodia, Ethiopia, Afghanistan and Oman. He has published/presented many technical papers in national and international forum that includes his recent international journal publication on improved higher lead time river flow forecasting using sequential neural network with error updating.

   Dr. Prakash is an ASCE Member and has affiliation with other organizations such as Flood Management Association (FMA); International Association of Hydrological Sciences, UK; Environmental and Water Resources Institute of ASCE; and Society of American Military Engineers (SAME). When not working, he likes to play with his son, spending time with his family and volunteering for social work.

   If elected to serve as Vice-President of Membership, I will work to improve the ASCE Capital Branch Luncheon program that includes regular meetings, suitable meeting place and encourage student/new members to attend ASCE events.

   2) Write-In Selection: _____________________________
      (ASCE membership must be current; verification required)

IV. SECRETARY
   1) John Ibsner, EIT (___)

   I grew up in an Engineering family and I have always had a tremendous amount of respect for engineers. When I was young, I saw how important it is to uphold the trust and respect that society has for the Civil Engineering profession.

   I graduated from California State University, Sacramento in May 2012 with a B.S. Degree in Civil Engineering. I now work for Atkins as a Junior Civil Engineer and I have successfully passed my E.I.T.

   I would like to serve the ASCE Capital Branch by filling the Secretary Officer role. One of the ways that we can give back is through helping organizations like the ASCE. Please vote for me to serve as your Secretary for the next term.

   2) Write-In Selection: _____________________________
      (ASCE membership must be current; verification required)
V. TREASURER

1) Richard Weitzenberg, PE (___)

*Incumbent Treasurer.*

“Dick” is retired as Civil Design Supervisor for Sacramento Municipal Utility District (SMUD). He has been a member of ASCE since graduation from UC Berkeley. Dick is also a Past-president of the Sacramento Post of the Society of American Military Engineers (SAME). He has served as Treasurer for many organizations, including SAME, Sacramento Youth Soccer League, Northern California Soccer Referees Association and a local Toastmasters Club.

2) Write-In Selection: ________________________________________

(ASCE membership must be current; verification required)

**Note:**

Two positions on the Capital Branch Board will be filled by succession per the Bylaws as follows:

- *Ms. Natalie Calderone* will transition from President-Elect to President;
- *Mr. Darren Mack* will transition from President to immediate Past-President.