President’s Message

By Kimberly Brown, P.E. ASCE President

September marks the end of my term as the ASCE Sacramento Section President. This message continues where I started by thanking all the outstanding 2013-2014 officers of the Section, Branch, Institutes, YMF and Student Chapters. I am grateful to all the members who took time to cast ballots for our next group of officers. Over the past year, our officers helped pursue the four focus areas I have outlined in my President’s message. On September 16, 2014, I invite you to attend the Officer Installation and Individual Awards Dinner. Please go to www.asce-sacto.org to register.

Increase Member Involvement-
If you have ever thought about becoming involved as an officer with the Sacramento Section or the Capital Branch, now is the time. The Sacramento Section is looking to fill the Treasurer role for the 2014-2015 term and the Capital Branch is looking to fill the President-Elect, Treasurer and Secretary Roles.

Increase ASCE Legislative Presence-
With the start of the school year, I am reminded how important STEM Education is to our young children. The Government Accountability Office recently released “Science, Technology, Engineering, and Mathematics Education: Assessing the Relationship between Education and the Workforce. Read more about the study in the legislative report below.

Increase Interaction with Students and Younger Members-
YMF hosted their annual Make-A-Wish golf tournament in July. As usual, the YMF charity golf tournament was a huge success and they were able to grant several wishes to local children.

Vision-
Kyle Sanford is our new Sacramento Section President. Kyle brings a fresh vision for ASCE and the Sacramento Section. Kyle will be assisted by a great team of leaders continuing or joining our Board of Directors. I am counting on each of you to give Kyle your full support.

Thank you for your outstanding support. It has truly been my pleasure to serve. In closing, I invite each of you to communicate your ideas to the Board of Directors. Please send your thoughts to: asce@sac-te.org

Sincerely,
Kimberly Brown

Individual Awards Dinner, September 16

Outstanding Civil Engineer in the Private and Public Sector, Legislative Activities, ASCE Section, Branch and YMF Officer, ASCE Practitioner Advisor, ASCE Faculty Advisor, ASCE Life Member Lifetime Achievement, Younger Civil Engineer, Civil Engineering Student, State Legislator of the Year, Legislative Activities, Academic Achievement, Professional Service, Outstanding Service, Community Service

To nominate, contact Kenny at kdosanjh@hdrinc.com

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The Engineerogram, P.O. Box 2402, Granite Bay, CA 95746
(916) 961-2723 (phone) • e-mail: asce@sacasc-cto.org • Web site: www.asce-sacto.org
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@sacasc-cto.org. Deadline for articles is on the 20th of the month prior to the issue.

Advertising Rates:

<table>
<thead>
<tr>
<th>Category</th>
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<tr>
<td>Full Page</td>
<td>$250 - A page is 7 1/2&quot; x 9 1/2&quot;</td>
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<tr>
<td>Half Page</td>
<td>$130 - 1/2 page (either horizontal 7 1/2&quot; x 4 3/4&quot;; or vertical 3 3/4&quot; x 9 1/2&quot;)</td>
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<tr>
<td>Quarter Page</td>
<td>$76 - 3 3/4&quot; x 4 1/4</td>
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<tr>
<td>Professional Card</td>
<td>$150 for a full year - 2 1/2 x 1 1/2 (reduced down from 2 x 3 1/2); OR</td>
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<td>$175 for a full year for 2 x 3 1/2 size business card</td>
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<td>Classified Ad in</td>
<td>Newsletter or Website</td>
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(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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Transportation & Development Institute
Vacant

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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 presidents@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>
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<tbody>
<tr>
<td><strong>SEPTEMBER</strong></td>
<td></td>
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</tr>
<tr>
<td>Thursday, Sept. 4 5:30 p.m.</td>
<td>YMF September Mixer</td>
<td>Blue Cue Bar Sacramento</td>
<td>Bryan <a href="mailto:Perrin@usace.army.mil">Perrin@usace.army.mil</a></td>
</tr>
<tr>
<td>Wednesday, Sept. 3 6:00 – 7:00</td>
<td>EWB Fund Raising</td>
<td>Track 7 Brewing Co.</td>
<td><a href="mailto:ashmartin@ucdavis.edu">ashmartin@ucdavis.edu</a></td>
</tr>
<tr>
<td>Wednesday, Sept. 17 6:00 – 7:00</td>
<td>EWB Chapter Meeting</td>
<td>TDB</td>
<td>Rich Williams <a href="mailto:rich.williams@dot.ca.gov">rich.williams@dot.ca.gov</a></td>
</tr>
<tr>
<td>Tuesday, Sept. 9 5:30</td>
<td>T.R. Higgins Lecture: Statics, Strength, Ductility and the Uniform Force Method</td>
<td>Sacramento Inn and Suites 1401 Arden Way, Sacramento</td>
<td><a href="mailto:seascc@sbcglobal.net">seascc@sbcglobal.net</a></td>
</tr>
<tr>
<td>Monday, Sept. 15 6:00 p.m.–7:30</td>
<td>ASCE Sacramento Section Board Meeting</td>
<td>HDR Folsom</td>
<td>Kimberly Brown <a href="mailto:kimberly.brown@hdrinc.com">kimberly.brown@hdrinc.com</a></td>
</tr>
<tr>
<td>Tuesday, Sept. 16 5:30 – 9</td>
<td>Sacramento Section Individual Awards &amp; Installation Dinner</td>
<td>Hilton Sacramento Arden West Harvard, Sacramento</td>
<td>Kenny Donanj <a href="mailto:Kewanjit.Donanjh@hdrinc.com">Kewanjit.Donanjh@hdrinc.com</a></td>
</tr>
<tr>
<td>Tuesday, Sept. 23 11:30–1</td>
<td>Capital Branch Lunch Meeting JFP Auxiliary Spillway Structure</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>20th of Each Month</td>
<td>The Engineerogram – Content Deadline</td>
<td></td>
<td>Michelle Zeiss 916-961-2723 <a href="mailto:asce@asce-sacto.org">asce@asce-sacto.org</a></td>
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<tr>
<td><strong>OCTOBER</strong></td>
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</tr>
<tr>
<td>Thursday, Oct. 23</td>
<td>Fundraising Dinner/Silent Auction</td>
<td>Club Pheasant, W. Sacramento</td>
<td><a href="http://www.ewb-sac.org">www.ewb-sac.org</a></td>
</tr>
<tr>
<td>Fri. &amp; Sat., Oct 17 &amp; 18</td>
<td>Student Days sponsored by CI</td>
<td>Sacramento</td>
<td><a href="mailto:lswaidat@magnuspacific.com">lswaidat@magnuspacific.com</a> or <a href="mailto:bquon@cts-1.com">bquon@cts-1.com</a></td>
</tr>
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### Conferences
- Section Board & Officer Meeting
- Region 9 Event
- Outreach Event
- Institute
- EWB Event

### 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

### Keep Your Membership Information Updated
Have you changed jobs, moved or changed email addresses lately? Your membership information may be out of date. 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.

### 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 Contact Program, visit http://www.asce.org/keycontacts
**Announcements**

**AISC T.R. Higgins Lecture: Statics, Strength, Ductility and the Uniform Force Method**
Presented by Larry Muir, PE, Director of Technical Assistance, AISC
Tuesday, September 9, 2014
5:30 PM Social, 6:30 PM Dinner, 7:30 Presentation
Taste of Italy Dinner Buffet
Sacramento Inn and Suites (formerly Clarion & Sacramento Inn) 1401 Arden Way, Sacramento
$40 advance RSVP by Friday 3 pm, $50 RSVP Monday noon, $60 RSVP after Tuesday 1 pm.
$20 students RSVP by Friday 3 pm. If paying by PayPal, add 5% to total for processing.

Hosted jointly by our local chapters of ASCE Structural Engineering Institute, SEAOC, AISC. Please RSVP as soon as possible to SEAOC at seaocc@sbcglobal.net.

**ASCE Section Awards & Installation Dinner**
Tuesday, September 16th
5:30pm (no host reception) 6:30pm (dinner)
Hilton Sacramento Arden W. 2200 Harvard St. Sacramento
Contact: Kenny Dosanjh at Kenwarjit.Dosanjh@hdrinc.com or go to www.ascesacto.org to register.

**Student Days sponsored by ASCE Construction Institute**
October 17 & 18
Sacramento
For more information, see event flyer at the bottom of this newsletter and contact Louay Owaidat at lowaidat@magnuspacific.com or Brad Quon at bquon@cts-i.com

**2014 International Conference on Sustainable Infrastructure**
November 6-8 in Long Beach, CA
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. 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

Certification is the recognition of attaining advanced knowledge and skills in a specialty area of civil engineering. ASCE created Civil Engineering Certification, Inc. to provide a mechanism for professional post-licensure certification of the various specialties within civil engineering.

Each Academy offers the highest advanced post-licensure certification in areas of coastal, geotechnical, navigation, ocean, ports, and water resources engineering. All certifications adheres to ASCE’s policy to broaden and deepen the body of knowledge for practicing engineers and to elevate the standards in civil engineering. For more information go to http://www.asce.org/certification/civil-engineering-certification/.
Sacramento Capital Branch Luncheon
Tuesday, September 23
11:30 AM Networking, 12 – 1 PM Lunch and Presentation
Woodlake Hotel and Conference Center
500 Leisure Lane, Sacramento, CA 95815
Contact: dmack@sageengineers.com

Luncheon Topic: Construction of the JFP Auxiliary Spillway Structure
Presented by Cecily Nolan and Cheuk Wan, U.S. Army Corps of Engineers
The Joint Federal Project is a $962-million cooperative effort between the U.S. Army Corps of Engineers and the Bureau of Reclamation, in cooperation with the Central Valley Flood Protection Board and the Sacramento Area Flood Control Agency, which serves as one piece of a larger plan to help the Sacramento region achieve a 200-year level of flood protection.

The JFP is primarily the construction of an auxiliary spillway, consisting of: 1) a control structure containing six submerged tainter gates, 2) a 3,000 foot long spillway chute and a stilling basin that acts as an energy dissipator, and 3) a 1,100 foot long approach channel.

The JFP’s new auxiliary spillway is the key feature to improving Folsom’s flood control ability. The new auxiliary spillway will operate in conjunction with the existing Folsom dam to release water earlier during an extreme storm, thus reducing hydrologic risk. The presentation will focus on construction and design of the control structure, including placement of over 100,000CY cubic yards of concrete and fabrication, transportation, and installation of the tainter and bulkhead gates.

Cecily Nolan graduated from Clemson University with a degree in Civil Engineering and has been working for the Corps of Engineers for the past 14 years. The majority of Cecily’s experience has been with various projects at Folsom Dam, focusing on structural engineering but with a variety of roles. For the JFP Auxiliary Spillway Control Structure (Phase 3), she has served as lead structural engineer during design and structural engineer during construction. For the Auxiliary Spillway JFP Chute and Still Basin (Phase 4), she temporarily lead the multi-discipline design team during design.

Cheuk Wan started with the Corps of Engineers in 2010 with his B.S. and M.S. degree in Civil Engineering from UC Davis. His works involved utilizing finite element analysis in hydraulic steel and hydraulic concrete structure design. Cheuk served as a structural designer of the JFP Auxiliary Spillway Control Structure (Phase 3). He is currently providing structural engineering support to the construction of the control structure, including the fabrication and installation of the tainter and bulkhead gates. He is also serving as the Lead Structural in the retrofit of the Folsom Main Dam Tainter Gates.

New By-Laws
The Board of Directors of the Capital Branch, of the Sacramento Section, American Society of Civil Engineers (ASCE) recently reviewed and updated the By-Laws that govern the operations of the Capital Branch. The updated By-Laws have been reviewed and accepted by the Sacramento Section Board of Directors. In accordance with Section 11.3.3 of the By-Laws, they will be circulated for review by the membership of the Capital Branch for at least 30 days prior to formal adoption by the Capital Branch Board. The By-Laws will be posted to the following locations:

- September 2014 Engineerogram page 11-16.
- Posted to the Capital Branch web page (http://ascesacto.org/content.php?page=Capital_Branch)
- Posted to the Capital Branch LinkedIn page (http://goo.gl/iG6aD6)

Comments on the By-Laws can be emailed to ascSacramentoSectioncb@gmail.com, or mailed to the ASCE Section Office, Attention: Capital Branch Board of Directors, PO Box 2402, Granite Bay, CA 95746. Deadline to receive comments is Friday, September 26, 2014.

Capital Branch Member Survey
In an effort to better understand our members’ needs, the Capital Branch Board has prepared a brief survey to better understand what we can do to best serve our membership. 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.
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/iG6aD6.

Younger Member Forum
http://www.sacymf.org/

2015 Western Regional Younger Member Council (WRYMC) Registration Fast Approaching!
February 20 -February 21, 2015
Hyatt Regency Bellevue
900 Bellevue Way NE
Bellevue, WA

The Seattle YMF is excited to put on a conference that will provide leadership skills, networking opportunities, and showcase the beautiful Seattle area to all attendees. A pre-conference brewery tour in Seattle and an innovative scavenger hunt using social media will promote networking among younger members; while technical tours to the longest floating bridge in the world, the biggest tunnel boring machine, and one of the most sustainable treatment plants, will expose you to the complexities of engineering in the Seattle area. Don’t forget about the Leadership Sessions planned for Friday and Saturday that will help prepare you for your current or future leadership role in your local Younger Member Forum. Look for registration information in your email or check the WRYMC website.

Engineers Without Borders
www.ewb-sac.org

Next Chapter Meeting
Wednesday, September 17, 2014, 6:00-7:00 PM
Location - Please contact Rich Williams at rich.williams@dot.ca.gov.

Monthly Fundraising Meeting
Wednesday, September 3, 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).

Fundraising Dinner & Silent Auction
Thursday, October 23, 2014, 6-8 PM
Club Pheasant, West Sacramento
Tickets available for purchase at www.ewb-sac.org or directly at https://ticketriver.com/event/11300

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.

Other Announcements-
Academics Without Borders
Academics Without Borders is seeking two civil engineers to volunteer for work in Bhutan -- teaching at Jigme Namgyel Polytechnic (JNP), a College of the Royal University of Bhutan, in Dewathang. Specifically, the college needs people to teach surveying methodology in relation to civil engineering. The volunteers would augment the teaching faculty, known as gap teaching in Civil Engineering program & Surveying program. The term may vary from 6 months to 12 months (one semester or two semesters at a stretch). Depending upon the experience and competency, the volunteer(s) may conduct short term training courses to the JNP faculty and stakeholders. For more information, please contact David Copp at dcopp@ucdavis.edu.

Officer Election Results
Rich Williams was re-elected as president and Megan LeRoy was re-elected as vice president. Laura Byrd was elected as Treasurer and Thomas Patten was elected as secretary. Terms begin September 1. The chapter thanks Andy Bambauer and John McMillan for the last two years of service as Treasurer and Secretary, respectively.

Webmaster Needed
The chapter needs a backup webmaster to handle workload when Matt Buche is too busy. If you can help, please contact Rich Williams at rich.williams@dot.ca.gov
Region 9

A Look Ahead for the Upcoming Year
Jennifer Epp, P.E., M.ASCE ASCE Region 9 Director/Chair

Jay Higgins to Become ASCE Region 9 Director/Chair
Jay Higgins, P.E., F. ASCE, the current ASCE Vice Chair, will begin a three-year term in October as Chair of ASCE Region 9 as well as representing California on the ASCE Board of Direction. Jay brings a wealth of ASCE experience. In addition to serving as Governor (Los Angeles Section) on the Region 9 Board, he is a past ASCE Metropolitan Los Angeles Branch President and Los Angeles Section President. He is also a retired Senior Project Manager with URS and currently a consulting engineer. Those of you who know Jay, know that he is a dedicated ASCE volunteer and will be a strong leader that will serve ASCE Region 9 well.

John Hogan to Become the ASCE Region 9 Governor from the Los Angeles Section
John Hogan, P.E., M.ASCE, will join the Region 9 Board of Governors in October. He will also serve a three year term and brings a wealth of ASCE experience. He is a past president of the ASCE Los Angeles Section and currently is the CEO of Hall and Foreman Inc.

New ASCE Region 9 Committees
Recently, ASCE Region 9 added several new committees, bringing the number of ASCE Region 9 committees to 14. Amber Falk joins us as the Younger Member Committee Chair, Ziad Mazboudi joins us as the Chair of our statewide Disaster Preparedness Committee, and Rich Haller joins us as the Chair of Communications with Sections and Branches. They are great additions to our team. Look for exciting and timely things from them this upcoming year.

Legislative Activities
Infrastructure advocacy will remain an important priority for Region 9. Our team working on infrastructure advocacy efforts includes our Government Affairs Committee (Shahn Ahmad – Chair), our Water/Environment Committee (Mark Norton – Chair), our Transportation Committee (Ken Rosenfield – Chair), and our Lobbyist (Richard Markuson). This team organizes visits with legislators to discuss issues important for Civil Engineering and advocates ASCE Region 9’s position on proposed legislation that would impact our profession.

Region 9 Infrastructure Symposium and Awards
ASCE Region 9 has teamed up with the San Diego Section to hold the 9th Annual Infrastructure Symposium in San Diego next spring. The annual Region 9 awards dinner will be held in the evening after the Symposium and will be an opportunity to celebrate great Civil Engineering accomplishments from the previous year. Stay tuned for the lineup of planned speakers for the Symposium. The last couple of years have really taken the Infrastructure Symposium to the next level as a premiere event to keep up to date with developments in our profession and next year will be no exception. The San Diego Section will be celebrating their one hundredth anniversary next year with a variety of events.

Things of Interest with ASCE at the Society Level
ASCE has received a generous amount of support that has allowed us to start the filming of the IMAX film Dream Big. Dream Big will be a groundbreaking film experience. For the first time, IMAX and other large-screen formats will be used to examine the science and technology of large-scale engineering projects. This film will celebrate as well as respect the drive to engineer solutions that solve problems or overcome challenges encountered by humans. This exciting film is an opportunity to expose millions of viewers including the younger generations and get them excited about engineering.

ASCE’s Executive Director is Retiring
Pat Natale, who has served for the past 12 years as executive director, chief staff officer, and secretary of ASCE will be retiring at the end of this year. He has done an excellent job representing our 145,000 members, directing a staff of more than 250 employees, overseeing 6,000 volunteers, and managing an annual operating budget of more than $50 million. ASCE’s Board of Direction is currently in the process of selecting his successor.

Remarks from Outgoing Director Jennifer Epp
It’s been a pleasure to serve in this role for the past three years. The Region 9 team is an outstanding group of individuals that I’ve had the pleasure working with. I’d recommend to anyone to get involved in ASCE activities at the Branch, Section, Region, or Society level. The activities and people are amazing. Feel free to contact me at jennifer.b.epp@gmail.com with any questions.
Legislative Update

Richard Markuson

Region 9 Legislative Advocate
The California Legislature was on its summer recess during July and will return August 4 for its final 4 weeks of the 2013-14 session. Major work remains to be done on a water bond and school bond.

Recent Reports
California's Manufacturing Industries: Employment and Competitiveness in the 21st Century assesses the manufacturing industry in California from an employment and competitiveness perspective. It finds that while manufacturing employment has fallen in the last decade, output has increased. California is the largest contributor to U.S. manufacturing but its diverse economy makes it less dependent on the contribution of manufacturing to the state’s economy than other states. The report provides an overview of manufacturing employment in California at the industry level for the past 10 years. The report also finds that California is competitive in both high and low technology industries.

Jonathan Rothwell from Metropolitan Policy Program at Brookings uses a unique database from the labor market information company Burning Glass and other sources to analyze the skill requirements and the advertisement duration time for millions of job openings…. in Still Searching: Job Vacancies and STEM Skills “These job openings data provide new evidence that, post-recession, STEM skills, particularly those associated with high levels of educational attainment, are in high demand among employers. Meanwhile, job seekers possessing neither STEM knowledge nor higher education face extraordinary levels of competition for a scarce number of jobs. Governments at all levels, educators, training organizations, and civic leaders can utilize job vacancy data to better understand the opportunities available to workers and the specific skills required of them. Improving educational and training opportunities to acquire STEM knowledge should be part of any strategy to help unemployed or low-wage workers improve their earnings and employability.”


Government Accountability Office issued Science, Technology, Engineering, and Mathematics Education: Assessing the Relationship between Education and the Workforce “Both the number of science, technology, engineering, and mathematics (STEM) degrees awarded and the number of jobs in STEM fields increased in recent years. The number of degrees awarded in STEM fields grew 55% from 1.35 million in the 2002-2003 academic year to over 2 million in the 2011-2012 academic year, while degrees awarded in non-STEM fields increased 37%. Since 2004, the number of STEM jobs increased 16% from 14.2 million to 16.5 million jobs in 2012, and non-STEM jobs remained fairly steady. The trends in STEM degrees and jobs varied across STEM fields. It is difficult to know if the numbers of STEM graduates are aligned with workforce needs, in part because demand for STEM workers fluctuates.”

State of California Interagency Rail Safety Working Group released Oil by Rail Safety in California: Preliminary Findings and Recommendations “In January 2014, the Governor’s Office convened a Rail Safety Working Group to examine safety concerns and recommend actions the state and others should take in response to this emerging risk...[the Interagency Rail Safety Working group recommends that] the state should press both the federal government and the railroad industry to take additional safety measures. Additionally, the state should strengthen its inspection and enforcement resources, remedy significant gaps in its emergency preparedness and response programs, and provide the public with an interactive map showing potential high risk areas from oil by rail traffic.”

University of California, Davis has released Economic Analysis of the 2014 Drought for California Agriculture. “This report updates estimates on the drought’s effects on Central Valley farm production, presents new data on the state’s coastal and southern farm areas, and forecasts the drought’s economic fallout through 2016. The study found that the drought—the third most severe on record—is responsible for the greatest water loss ever seen in California agriculture.... The results highlight California agriculture’s economic resilience and vulnerabilities to drought and underscore the state’s reliance on groundwater to cope with droughts.” (Report Summary, July 15, 2014).

The American Public Transportation Association released The Role of Transit in Support of High Growth Business Clusters in the U.S. “This study addresses issues of business productivity, market access and transit service for high growth business clusters in the United States. The study draws on eight high-growth knowledge-oriented business clusters and their transportation conditions in six US cities to provide an estimate of the total national income and employment consequences of road accessibility challenges.” Findings include: location matters; existing firms are a magnet attracting additional firms to settle nearby; up to 480,000 jobs could be affected by 2040 by transportation capacity constraints; and, transit access to clusters could support 104,000 of these jobs resulting in $13.6 billion in annual business output, $5.7 billion in wage income and nearly $8.6 billion in GDP.

The Alliance for Biking and Walking released Bicycling and Walking in the United States 2014 “The most recent nationwide data on bicycling and walking mode share show that only 1.0% of all trips taken in the U.S. are by bicycle, and 10.4% are on foot (NHTS 2009). Of commuters nationwide, 2.8% get to work by walking and 0.6% get to work by bicycle. These numbers are slightly higher in large cities (5.0% and 1.0%, respectively). Though these numbers are low, they represent a continuing gradual increase in bicycling and walking in the U.S.... [Bicycling and walking have a] positive impact on job growth, individual transportation costs, retail sales, traffic congestion, air quality, property values and stability, health and worker...
The United States Geological Survey released *The Search for Geologic Evidence of Distant-Source Tsunamis Using New Field Data in California* “Understanding the impacts of historical tsunami events in California is a key step in evaluating the risks presented by future tsunami events. “Recent numerical tsunami modeling results identify the eastern Aleutian Islands subduction zone as the ‘worstcase’ distant-source region, with the potential for causing tsunami runups of 7–10 m in northern and central California and 3–4 m in southern California… A reconnaissance of 20 coastal marshlands was performed through site visits and coring of shallow surface sediments to determine if evidence for past tsunamis existed.”

**Environment California Research and Policy Center** released *Wasting Our Waterways* “Industrial facilities dumped 2.4 million pounds of toxic chemicals into California’s waterways statewide in 2012, making California’s waterways the 26th worst in the nation…. The ‘Wasting Our Waterways’ report comes as the Environmental Protection Agency considers a new rule to restore Clean Water Act protections to thousands of waterways in California and across the nation…. Overall, polluters dumped 1.67 million pounds of toxic chemicals into the San Francisco Bay watershed during 2012. This is 71% of all toxic water pollution documented for California’s waterways that year.”

**Smart Growth America** released *Dangerous by Design 2014* “[T]his report uses a Pedestrian Danger Index (PDI) that gives an indication of the likelihood of a person on foot being hit by a vehicle and killed. The PDI is based on the share of local commuters who walk to work … and the most recent five years of data on pedestrian fatalities…. This report also analyzes the data to determine the types of roadways where pedestrian deaths are most common. The examination of data in the federal Fatality Analysis Reporting System (FARS) reveals that people on foot were most often killed on higher capacity and higher speed roads classified as arterial.” Five California metropolitan areas ranked among the most dangerous: Riverside-San Bernardino-Ontario (14th), Sacramento-Arden-Arcade-Roseville (23rd), Los Angeles-Long Beach-Santa Ana (27th), San Diego-Carlsbad-San Marcos (29th), and San Jose-Sunnyvale-Santa Clara (30th).

The CA State Auditor released its report, *Antelope Valley Water Rates: Various Factors Contribute to Differences Among Water Utilities,* audit of four water utilities—Los Angeles County Waterworks, District 40; Palmdale Water District; Quartz Hill Water District; and California Water Service Company—shows purchased water has a significantly higher cost per acre-foot than pumped groundwater, says in 2013 Cal Water spent $482 per acre-foot for purchased water but only $276 per acre-foot on pumped groundwater.

The Little Hoover Commission released its report, *Governing California Through Climate Change,* findings include: there is no "single-stop administrative structure in place to create statewide climate adaptation policy" and govern the state's response to climate change impacts, recommends that the Governor and Legislature "create a new state entity or enhance the capacity of an existing state organization" to be the authoritative source for local and regional governments to work with the state to assess climate risks.

The Groundwater Voices Coalition, division of California Water Foundation, releases, *Land Subsidence from Groundwater Use in the San Joaquin Valley,* finds that "sinking land caused by pumping groundwater is occurring at nearly historically high rates of almost one foot per year in portions of the San Joaquin Valley," resulting in "expensive construction to address the impacts on canals, streams, rivers and flood bypass channels."

**Appointments**

The Governor has made the following appointments:

To California Water Commission All reappointed except Armando Quintero.

Andrew Ball, Piedmont, Western Region president of Suffolk Constructions; Joseph Byrne, Los Angeles, counsel at Best Best and Krieger; Daniel Curtin, Carmichael, director of the California Conference of Carpenters; Jose Del Bosque Jr., Los Banos, president of Empresas Del Bosque Inc. and a partner at J and G Contract Labor Inc.; Kimberly Delfino, Sacramento, California program director at the Defenders of Wildlife; Luther Hintz, Brownsville, formerly general manager and executive director at Reclamation District 108; Armando Quintero, San Rafael, director of development at the UC Merced Sierra Nevada Research Institute; Anthony Saracino, Sacramento, water resources consultant. As assistant director of sustainability at the California Department of Transportation: Steven Cliff, Sacramento, assistant chief of the Stationary Source Division at the CA Air Resources Board.
ASCE STUDENT DAYS

OCTOBER 17-18, 2014
Sacramento, CA

Friday
• Icebreaker and Dinner Session (Keynote Speaker TBD)
• Open Panel Discussion
• Saturday (Breakout Sessions for:
- Preliminary for various Civil Engineering/Construction Disciplines
- Interviews
- Resume Building
- Project Site Visit

Meals, lodging, University of the Pacific and CSU Chico students, and conference materials provided courtesy of Sacramento Section.
Construction Institute for Juniors and Seniors as of Fall 2014.
Limited registration for Sac State only.
• University of the Pacific
• CSU Chico
• CSU Sacramento
• UC Davis

For details please contact:
Luxury J, Orakor @ luxea@gmail.com or Brad Quinn @ bradquinn37@gmail.com

SACRAMENTO UNITED
PARK(ing) Day 2014

FRIDAY, OCTOBER 17, 2014
FLAMBOY GOLF CLUB
1000 FAIRMOUNT DRIVE
SACRAMENTO, CA

Last year we raised over $18,000. Help us do it again!
More prizes, more fun, more scholarships.
Questions or want to register early? Contact sacsevdevelopment@pacific.edu
CAPITAL BRANCH

BYLAWS

Article 1: General
1.1 Name. The name of this organization shall be the Capital Branch, of the Sacramento Section, American Society of Civil Engineers (ASCE) (hereinafter referred to as the Capital Branch).
1.2 Objective. The objective of the Capital Branch shall be the advancement of the science and profession of engineering in a manner consistent with the purpose of the American Society of Civil Engineers. (hereinafter referred to as the "Society").
1.3 Authority. The actions of the Capital Branch shall be consistent with the provisions as set forth in the Constitution and Bylaws of the Sacramento Section.

Article 2: Area and Membership
2.1 Area. The area of the Capital Branch shall be as noted in the Sacramento Section Bylaws.
2.2 Assigned Members. All members of the Society of all grades, whose addresses of record are within the boundaries of the Capital Branch, as defined by the Society, shall be Assigned Members of the Capital Branch.
2.3 Subscribing Members. All members of the Society of all grades, who subscribe to the Bylaws of the Capital Branch, and who have paid the current dues of the Sacramento Section, shall be Subscribing Members of the Branch.
2.3.1 Rights of Subscribing Members. Only Subscribing Members of the Branch shall be eligible for election to Capital Branch office, or to vote in Capital Branch elections.

Article 3: Separation from Membership
3.1 Separation from Membership. Members who cease to be members of the Sacramento Section, for any reason, shall cease to be members of the Capital Branch.

Article 4: Finance
4.1 Branch Financing. The activities and programs of the Capital Branch shall be financed by the annual allocation of dues from the Sacramento Section, where the dues will be distributed according to the formula stated in the Sacramento Section Bylaws. The Capital Branch may hold fundraising activities to raise additional funds for the Branch activities.

Article 5: Management
5.1 Board of Directors. The governing body of the Capital Branch shall be a Board of Directors. The Board shall be responsible for the supervision, control, and direction of the Capital Branch. The Board shall manage the affairs of the
Capital Branch in accordance with the provisions of the Capital Branch’s governing documents, subject to the control of the Section.

5.2 Budget. The activities and programs of the Capital Branch shall be funded based on a budget proposed by the Capital Branch Board of Directors.

5.3 Duties of the Board of Directors. Duties of the Board of Directors shall include management of the Capital Branch, overseeing the various activities within the Capital Branch, and communicating with the Section.

5.4 Annual Report. The Board of Directors shall oversee the preparation of the Capital Branch Annual Report, which shall be submitted to the Sacramento Section in accordance with published requirements of the Society.

Article 6: Officers and Directors

6.1 Officers. The officers of the Capital Branch shall be a President, a President-Elect, a Vice-President of Education, a Secretary, a Vice-President of Membership, a Treasurer, the latest active resident Past-President, and committee chairs.

6.1.1 Officer Duties. The basic duties for the officers are outlined in the Operations Manual for the Capital Branch for guidance as officer terms change.

6.2 Board of Directors. The Board of Directors shall consist of the President, President-Elect, Vice-President of Education, Secretary, Vice-President of Membership, Treasurer, and the latest active resident Past-President. The governing of the Capital Branch shall be vested in the Board of Directors.

6.3 Terms. All Directors, except the President-Elect, shall be elected for terms of one (1) year, which terms shall begin on October 1st and continue until September 30th of the following year.

6.3.1 Term of the President. The term of office for the President shall be a three (3) year term including one (1) year each spent as President-Elect, as President, and as Past-President. The President-Elect shall succeed to the office of President on October 1st. At this time, the President succeeds to the office of Past-President.

6.4 Vacancies. A vacancy in the office of President shall be filled by the President-elect. Other vacancies shall be filled for the unexpired term by appointment by the Capital Branch Board of Directors.

Article 7: Elections

7.1 Nominating Committee. The Nominating Committee shall choose one (1) or more candidates for election to each office, except the offices of President and Past-President, and obtain the consent of each nominee to serve, if elected. In addition, candidates may be nominated by written petition containing five (5) or more signatures of Subscribing Members. The Past-President shall serve as the chair of the Nominating Committee. The Nominating Committee will start the call for candidates in May, and shall submit the slate of nominees to the Board of Directors at the July Board Meeting. At the July Board Meeting, the Board of Directors shall vote on approval of the ballot.
7.2 **Ballots.** After the ballot is approved, the Executive Secretary shall send a ballot, containing a list of all nominees, petition nominees, and a space for a write-in vote for another candidate for each office, to each Subscribing Member of the Capital Branch in the August Engineerogram (and through email), giving Members twenty-one (21) days to respond with their marked ballots.

7.3 **Tallying the Ballots.** Ballots returned to the Executive Secretary shall be opened and counted after the 21 day response window by three (3) tellers appointed by the President. For each office the candidate receiving the highest number of votes cast shall be declared elected. The Executive Secretary shall formally notify the candidates and current Board Members in writing of the election results. The results will be announced to the membership in September.

**Article 8: Meetings**

8.1.1 **General Membership Meetings.** The Branch shall hold a minimum of four (4) general membership meetings during the year.

8.1.2 **Other Meetings.** Other meetings shall be called at the discretion of the Board of Directors, or by the President upon written request of at least ten (10) Subscribing Members.

8.1.3 **Meeting Notice.** Notice of call for a Capital Branch meeting shall be sent to all Subscribing Members of the Capital Branch not less than seven (7) days in advance of the meeting.

8.1.4 **Quorum at Branch Meetings.** At all meetings where business is transacted, ten (10) Subscribing Members shall constitute a quorum.

8.2 **Board of Directors Meetings**

8.2.1 **Board of Directors Meetings.** The Branch shall hold monthly Board meetings, unless otherwise authorized by the Board of Directors, on such dates, times and places as the Board of Directors designate.

8.2.2 **Quorum.** A majority of the members of the Board of Directors (four (4) Directors total) shall constitute a quorum at any meeting of the Board of Directors.

8.2.3 **Email Quorum.** When a vote is being conducted via email, a unanimous vote of all members of the Board of Directors is required for it to pass.

8.2.4 **Installation of Officers.** The installation of newly elected officials shall coincide with the Section Annual Membership Meeting.

8.3 **Parliamentary Authority.** All business meetings of the Capital Branch and subsidiary organizations and the Board of Directors shall be governed by *Robert’s Rules of Order, Newly Revised*, except where these rules are not applicable or are inconsistent with the Bylaws of the Capital Branch, Sacramento Section Constitution and Bylaws, or the Society’s governing documents.

**Article 9: Subsidiary Organizations and Committees**

9.1 **Subsidiary Organizations.** Subsidiary organizations may be formed within the Capital Branch, consistent with the purposes of the Section and Branch, and in accordance with the provisions of these Bylaws. Subsidiary organizations may
be, but are not limited to, Younger Member Forums/Groups and Technical Groups. Names of subsidiary organizations shall be as set forth in the Society’s governing documents.

9.1.1. Formation. Formation of Subsidiary Organizations shall be subject to the approval of the Capital Branch Board of Directors, the Sacramento Section Board of Directors, and such other requirements as may be established by the Society. Bylaws of Subsidiary Organizations shall be approved by the Capital Branch and Sacramento Section Boards of Directors before becoming effective.

9.1.2. Process for Formation. Procedures for creating a Subsidiary Organization shall be as follows:

9.1.2.1 A Subsidiary Organization shall be proposed by submission of a written proposal to the Capital Branch Board of Directors with the name, objectives, officers, and brief comments on how the Subsidiary Organization will be of advantage to members in the Branch. Those proposing an Institute Chapter shall also contact the appropriate Society Institute and comply with the Institute rules for creating a Chapter.

9.1.2.2 Following approval of the Capital Branch Board of Directors, the proposal shall be forwarded to the Sacramento Section Board of Directors for their review and approval.

9.1.2.3 Following the approval of the Sacramento Section Board of Directors, those proposing a Subsidiary Organization shall prepare and submit Bylaws to the Capital Branch Board for the operation of the organization.

9.1.2.4 Approval of the Subsidiary Organization Bylaws by the Capital Branch and Sacramento Section Boards of Directors shall be obtained to activate the Subsidiary Group. Approval must also be obtained from the appropriate Institute to activate an Institute Chapter.

9.1.3 Budget. Each Subsidiary Organization shall submit an annual budget and financial statement to the Capital Branch Board of Directors for approval.

9.1.4 Annual Report. Each Subsidiary Organization shall submit an annual written report to the Branch Board of Directors on the activities and programs of the organization. This Annual Report, including a financial statement, shall be suitable for incorporation into the Capital Branch’s Annual Report to the Sacramento Section.

9.1.5 Level of Activity. Each Subsidiary Organization shall hold a minimum of two (2) events per year. Any Subsidiary Organization that does not maintain the minimum activity level for two (2) successive years, or does not have five (5) Subscribing Members on its rolls for two (2) successive years, shall be automatically disbanded. Assets of a disbanded Subsidiary Organization shall be assumed by the Capital Branch.

9.2 Committees
9.2.1 Standing Committees. The Branch shall have a Nominating Committee, a Membership Committee, a Life Member Committee, a Younger Member Committee, and a University Student Chapter Committee.

9.2.1.1 Nominating Committee. The Nominating Committee shall consist of not less than three (3) members, including the most recent active resident Past-Presidents of the Branch who is willing to serve, and others as appointed by the Board of Directors.

9.2.1.2 Membership Committee. The Membership Committee, led by the Vice-President of Membership, shall work within the civil/environmental engineering community to increase the ASCE membership, to liaison with Engineering firms and membership campaigns, and to encourage individual membership and participation in Branch activities.

9.2.1.3 Life Member Committee. The Life Member Committee will work with the Life Members to keep them active in the Section/Branch. They will also be responsible for the annual acknowledgment of Life Members and passing out of the certificates.

9.2.1.4 Younger Member Committee. The Younger Member Committee shall be chaired by the President, or other active member, of the Younger Member Forum, which shall serve as a liaison between the Branch and Younger Member Forum.

9.2.2 Task Committees. The Branch President may appoint task committees as deemed necessary. The terms of Task Committee members shall end at the end of the term of office of the Capital Branch President.

9.2.2.1 University Student Chapter Committee. The University Student Chapter Committee shall work with the university student chapters in the Sacramento Section Area to assist them with their programs. This may be a dual role held with the Sacramento Section and/or the Younger Member Forum

Article 10: Administrative Provisions

10.1 Proper Use of Section Resources. No part of the net earnings of the Capital Branch shall inure to the benefit of, or be distributable to its Directors, Officers, or any other private persons, except that the Capital Branch shall be authorized and empowered to pay reasonable reimbursements, payments or compensation for services rendered in furtherance of the purposes set forth above.

10.2 Limitations on Political Activity. No substantial part of the activities of the Capital Branch shall be carrying on propaganda or otherwise attempting to influence legislation, and the Capital Branch shall not participate in, or intervene in (including the publishing or distributing of statements), any political campaign on behalf of or in opposition to any candidate for public office. The Capital
Branch shall not carry on any activities prohibited by the provisions of the Society’s governing documents.

10.3 Conflict of Interest. A Conflict of Interest shall be defined as any activity, transaction, relationship, service, or consideration which is, or appears to be, contrary to the best interest of the Branch, Section, or the Society, or in which the interests of an individual or another organization has the potential to be placed above those of the Branch, Section or the Society. Any interested individual must disclose the existence of any actual or possible conflict of interest and all material facts to the Branch entity considering the proposed transaction. Action to address the conflict shall be taken by either the interested individual or the Branch entity.

10.4 Distribution of Branch Assets. Upon dissolution of the Branch, the assets remaining after the payment of the debts of the Branch shall be distributed to the Sacramento Section. In the absence of the Sacramento Section, they shall be conveyed to the American Society of Civil Engineers.

Article 11: Amendments

11.1 Process. These Bylaws may be amended only by the following procedure:

11.1.1 Proposal. An amendment to these Bylaws shall be proposed by any member of the Board of Directors, or by a written petition submitted to the Capital Branch Secretary, containing the text of the amendment, signed by not less than ten (10) Subscribing Members of the Branch.

11.1.2 Approval. The proposed Bylaws amendment(s) shall be approved by not less than a majority of the Capital Branch Board of Directors and submitted to the Sacramento Section Board of Directors for review and approval.

11.1.3 Notice of Adoption. Upon approval by the Sacramento Section Board of Directors, the proposed Bylaws amendment(s) may be adopted by a majority vote of the Capital Branch Board of Directors at the Branch Board Meeting following the Section approval, where a quorum is in attendance, provided that a written notice containing the text of the proposed amendment(s) is published to the Capital Branch membership at least thirty (30) days in advance of the meeting.