President’s Message

by Thor Larsen, P.E., President

September 30 is the end of the American Society of Civil Engineers calendar year, and October 1 is the beginning of the new year. ASCE National was founded in 1852, and the Sacramento Section of ASCE was founded in 1922. This amounts to a lot of history in civil engineering, and so many great achievements over those years.

The 2011/2012 calendar year for the Sacramento Section has certainly been a year of great achievements. It began on October 4, 2011 with the opening of Terminal B at Sacramento International Airport. This was the largest public works project in Sacramento County history, and the project was awarded the Sacramento Section Project of the Year for 2012 at the project and student awards banquet in February. Late this past summer, President Barack Obama signed the MAP 21 transportation bill. This was a long-awaited, 2-year transportation funding bill for air, water and surface transportation. The bill was initiated and led by U.S. Representative John Garamendi of the 10th District of California. Thanks to Congressman Garamendi, one of our own! Lastly, the Amtrak Station was relocated at the Sacramento Railyards project. This is a milestone for the project, which is the largest downtown redevelopment project in the United States.

This is the time of year when ASCE honors individuals for their commitment to this wonderful profession of civil engineering, from the students, to professors and professionals. Yes, I dare say “wonderful” profession because everyone uses the facilities that we design, build and maintain. The public truly has an admiration for those of us whom have chosen to be civil engineers, and true civil servants.

On September 26th at the Firehouse Restaurant in Old Sacramento, the annual Awards and Officer Installation Banquet was held. The awards ceremony included honors for students from the Section’s Civil Engineering Universities, scholarship awards from the Construction Institute, and the individual awards winners. Of course, also, the new officers were installed from the Section and Capital Branch! It was a very enjoyable event, with smiles abounding from the students, and awards winners, and all the newly installed officers. And the house was packed to capacity. Later in the EOG, is a listing of the awards winners and the new ASCE officers. Take a look, and if you know one, I am sure they’ll love a “Congratulations” from you.

Special thanks to Jon Balzer – President, Natalie Calderone – Senior Director, and Keith Jukes – Secretary of the Sacramento Section for making this a memorable event for the honorees and all the attendees. And thanks Jon for a great year!

Continued on Page 3
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, fax, or e-mail to ASCE/Sacramento Section Executive Secretary, Vivian Mevorah, at asce@asce-sacto.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.)

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.
President’s Message - Continued from Page 1

I very much look forward to serving as President in this coming year. There are some big events occurring. The Region 8 & 9 Section and Branch Leaders Workshop will be in Sacramento in late January, 2013 in conjunction with the Western Region Younger Member Conference (WRYMC). This is a chance to show off Northern California to those from Montana to Hawaii, and all in between. The Younger Member Forum of Sacramento (in conjunction with the North Nevada YMF) made this happen with a lot of hard work. It was led by Elias Karam and Liz Weeks, as the YMF was awarded to host the 2013 Western Region Younger Member Conference. Please give them your congratulations. The Capital Branch will be hosting the third Orthotropic Bridge Conference in June or July. This brings worldwide attendees. Previous conferences were in 2004 and 2008.

The Section has a great group of officers this year. Kim Brown and Kristy Chapman are both Past Presidents of the YMF, Natalie Calderone has been involved with the Section since 2003 or so, Keith is continuing with us, Kyle Sanford is our new Treasurer, and we have added a new position of Web Master, and that master is JD Christiansen.

The Section is really just the background support for the more local picture of this Northern California region. This includes the 4 Branches, the YMF, the Institutes and the Student Chapters. So, I hope you attend or volunteer in an ASCE function at one or many of these levels in 2012 / 2013.

Thanks, and please let us know your thoughts at asce@asce-sacto.org.
Sacramento River (I Street) by Herbert C. Johnson
Sept. 7, 1973

This structure was hit and damaged by a train at approximately 1535 yesterday, Sept. 6.Apparently, a caboose with one or more cars were running loose southbound and hit a train moving on the eastbound rails just east of the truss spans. The impact caused derailment of a car of the eastbound train, which hit and damaged two bent columns under the easterly approach spans.

The southerly steel column of Bent 20 was hit, and one flange was bent out of line approximately 6" to 8", the point of impact about 14 ft. above the ground line. One steel column of Bent 23 was hit and bent to a much lesser degree.

As soon as the damage was observed, and as men and signs could be brought to the site, loaded eastbound trucks were not permitted to cross the structure.

The intent was to restrict the loading to no more than legal, but with the great number of blanket and special permits outstanding, the only really workable system was to shunt all loaded trucks. Apparently, there were no problems in accomplishing this.

Steps were taken immediately to strengthen the damaged steel column of Bent 20. This work was done by maintenance forces, and consisted of placing a strongback vertically against the web of the column near the bent flange. The strongback used was a 12” H pile 12’ long and secured to the column near the ends with ¾” bolts. To hold the column in its deformed position and protect against further buckling, four 1” threaded rods were placed from the strongback through the web of the column and through a backing plate. Nuts on these rods were turned fairly tight. All connections were secured with double nuts.

The work was completed, and the roadway was re-opened to all legal loads at about 0035 hrs. of the 7th. Cooperation of the District Maintenance forces in securing materials and in doing the work was excellent. Also, Service and Supply was very cooperative in re-opening their yard for obtaining the H-pile section.

Continued on Page 5
The ASCE Region 9 Board has governors from each of the four ASCE Sections and two At-Large Governors. The ASCE Region 9 Chair also serves on the Society’s Board of Directors. ASCE Region 9 is pleased to have Larry Pierce joining the Board as the Governor for the San Diego Section and Mark Norton as an At-Large Governor. Both Larry and Mark bring their extensive ASCE volunteer experience to the Board. Mark is currently the Chair of the ASCE Region 9 Water and Environment Committee and Larry recently was Chair of the San Diego ASCE Report Card update. We say goodbye and thanks to Rich Haller and Kathy Haynes. Rich has recently served as the Vice Chair of ASCE Region 9 and Kathy as Chair of the Region 9 Awards Committee.

Jay Higgins continues his term as Governor for the Los Angeles Section, Fareed Pittalwala continues his term as Governor for the Sacramento Section, Brent Siemer continues his term as San Francisco Section Governor and Camilla Saviz continues as an At-Large Governor.

This upcoming year, the Los Angeles Section will be celebrating their centennial with many exciting events planned. Region 9 has partnered with the Los Angeles Section to help them celebrate, and this year, the California Infrastructure Symposium and Region 9 Awards dinner will be held in Los Angeles in March of 2013 as part of the centennial activities. For more information on the centennial activities visit www.ascealsection.org.

The Sacramento Section will host the ASCE Workshop for Section and Branch Leaders (WSBL) and the Western Regional Younger Member Council (WRYMC) in January of 2013. These events bring ASCE leaders from ASCE Region 9 and Region 8 (Arizona, Alaska, Nevada, Hawaii, Oregon, Utah, Montana, Idaho and Washington) together for leadership training.

In May of 2013, the Region 9 Government Relations Committee will be organizing our annual visit to our legislators in Sacramento. If you are interested in participating in this event, contact the committee Chair, Shahn Ahmad at sahmad@saassociates.net.

If you’d like to get involved in one of our committees, or are interested in joining the Region 9 Board, please contact me at richard.markuson@ascemember.org. The following positions are available for the terms of October 2013 through September 2016: Governor from the San Francisco Section; Governor from the Sacramento Section; and At-Large Governor. Letters of interest for the Section Governor positions are due December 1, 2012 and for the At-Large Governor in Spring of 2013.

### This Month in the State Capitol

**by Richard Markuson**

**ASCE Region 9 Legislative Advocate**

While the “comprehensive CEQA reform proposal” ran out of time in the Capitol before session adjourned on August 30, several bills that “tinker” with CEQA were passed and sent to the Governor.

Region 9 supports **AB 890** (Olsen R) that exempts from CEQA repair, maintenance, and minor alterations of existing roadways, provided the project is carried out by a city or county to improve public safety, does not cross a waterway, and involves negligible or no expansion of an existing use. The exemption lasts only until 2016.

**AB 1486** (Lara D) exempts the Los Angeles Regional Interoperable Communications System (LA-RICS) project from the CEQA. What is interesting about the effort is that LA-RICS was established in 2009 to united the regions first-responder communications system but apparently they didn’t know CEQA would be a problem until August 24, 2012 when AB 1486 was gutted and amended with this exemption. The project will reportedly include 80 land mobile radio (LMR) system 180-foot three or four legged towers with antennas, microwave dishes, and other components (up to 33 of these may be collocation sites), and approximately 255 long-term evolution (LTE) broadband mobile data system 70-foot tapered monopoles with antennas, microwave dishes, and other components (approximately 33 of these may be collocation sites). Supporters argued the lives of first-responders were at risk because CEQA would inevitably delay construction while Opponents argue that this large-scale project is exactly the kind of project that needs environmental review and cannot reasonably bypass the standard environmental process due to pressing deadlines. The Legislature approved the bill by an overwhelming bi-partisan majority. It demonstrates a valuable point - don’t get between a first-responder and his/her mobile radio.

**AB 1665** (Galgiani D) Specifies that CEQA does not apply to the closure of a railroad grade crossing by order of the Public Utilities Commission (PUC) when the PUC has found the crossing to present a threat to public safety.

Region 9 supports **AB 2245** (Smyth R) that exempts specified bicycle lane projects from CEQA until 2018.

**AB 2564** (Ma D) Expands the application of an existing CEQA exemption for pipeline projects less than one mile in length.

**AB 2669** Repeals obsolete and/or duplicative provisions from CEQA.

**SB 972** (Simitian D) recasts and expands notification requirements under CEQA in minor ways. Governor Brown has already signed SB 972.

*Specifically, this bill:*

Adds a public agency that has filed a written request for notice of a scoping meeting to the list of entities that a lead agency must notify of such a meeting.

Requires a notice of preparation of an environmental impact report (EIR) be provided by the State Clearinghouse to any legislator in whose district the project has an environmental impact, if the legislator requests the notice and the clearinghouse has received it.

Next month we’ll review more measures approved by the Legislature in August and actions the Governor takes in September.
ASCE, SACRAMENTO SECTION
AWARDS AND INSTALLATION BANQUET
September 26, 2012

Section and Branch Officers
Sacramento Section Officers
President Thor Larsen
President Elect Kimberly Brown
Secretary Keith Jukes
Treasurer Kyle Sanford
Executive Director Oscar Serrano
Senior Director Natalie Calderone
Junior Director Kristy Chapman
Past President Jon Balzer

Capital Branch Officers
President Mario Carreon
President Elect Darren Mack
Vice-President Ajay Sehgal
Secretary Doran Glauz
Treasurer Richard Weitzenberg
Past President Alfred Mangus

Student & Scholarships Award
Academic Achievement
CSU Sacramento Stacy Turner
CSU Chico Adam Scardaci
UC Davis Rose Rutherford
UOP Gregory Weissmann

Professional Service
CSU Sacramento Adam Youngson
CSU Chico Alexandra Oran
UC Davis Josh Bardet
UOP Brylle Cabacungan

Outstanding Student
CSU Sacramento Ashley Moran
CSU Chico Albert Guidice
UC Davis Brian Griffin
UOP Gordon Fong

Sacramento & San Francisco Section ASCE CI
Scholarship Recipients
David Kehn San Jose State CE
Marcos Vidal Stanford CE
Richie Farinha Cal Poly CM/AE
Richard Moore Chico State CM/Bus
Quang Le San Jose State CE
Vitaliy Leshchik CSU Sacramento CM/Bus
Alessandro (Alex) Folchi Santa Clara CE
Justin Besotes Chico State CM

Sacramento Section Awards

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<tr>
<th>Award</th>
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<td>Thomas A. Stanton Outstanding Girl Scouts Popsicle</td>
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<td>ASCE Event Stick Bridge Comp.</td>
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<td>Arthur L. Elliot Bridge John Quincy</td>
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<td>Engineering Award Jon Balzer</td>
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<td>Charles C. Pope Jon Balzer</td>
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<td>Construction Award Jon Balzer</td>
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<td>Francis N. Hveem Jon Balzer</td>
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<td>Geotechnical Award Derek Morely</td>
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<td>Frederik W. Panhorst Fred Turner</td>
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<td>Structural Award Phil Isenberg</td>
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<td>David N. Kennedy Water Bob Buckley</td>
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<td>Resources Award Dr. Matt Salveson</td>
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<td>Jonathan Burdette Brown Dr. Matt Salveson</td>
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<td>Education Award Richard Weitzenberg</td>
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<td>Stewart Mitchell Martin Farber</td>
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<td>History and Heritage Award Gary Bardet</td>
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<td>William H. Hall Alfred Mangus</td>
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<td>Flood Control Award Bob Buckley</td>
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<td>Excellence in Journalism Alfred Mangus</td>
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<td>Lifetime Achievement Award Dr. Matt Salveson</td>
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<td>Outstanding ASCE Richard Weitzenberg</td>
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<td>Life Member Keith Jukes</td>
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<td>Drury Butler Dale Roper</td>
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<td>Officer of the Year Elias Karam</td>
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<td>Outstanding ASCE Younger Blake Johnson</td>
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<td>Branch Officer Blake Johnson</td>
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<td>Outstanding Younger Blake Johnson</td>
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Jon Balzer presenting Dr. Matt Salveson with the Jonathan B. Brown Education Award
TALE OF THE NEW SAS BAY BRIDGE:
COMMUNITY’S PASSION FOR INNOVATION &
AESTHETICS:

Speaker: Ajay Sehgal, PE (Civil)
Senior Bridge Engineer, Caltrans

Bio:
Ajay is a Senior Bridge Engineer with Caltrans. He had his foot prints on all the long span bridges that are owned and operated by Caltrans. He worked on the SAS Bridge. This assignment required him to make trips to China, South Korea and Pennsylvania during construction of orthotropic box girders in China, fabrication of spherical bearing in Pennsylvania, and assembly of bearings in South Korea.

Currently, he is a falsework specialist. In this assignment, Ajay provides technical assistance to the State Bridge Engineers throughout the State. His other responsibilities are to update the construction practices pertaining to temporary structures that are required for building the bridges.

He loves bridges, cathedral or any civil engineering construction. He loves dancing, reading, travelling and promoting unity in diversity!

Topic:
When this bridge is completed, the SAS Span will be:
1. The world's largest SAS (Self Anchored Suspension) bridge
2. The world's only SAS bridge with only one tower

Single tower rises from not only the deep waters of the San Francisco Bay, but also from the deeper impulses of the Bay Area communities that not only seek unity in diversity, but also innovation. For the first time, shear links have been used to connect the four legs of the single tower.

It is a shining example of private and public agencies working together to deliver an iconic bridge to the community.

As a result of a 1989 earthquake of Richter magnitude 6.9-7.1 along the San Andreas Fault, the California Department of Transportation ("CalTrans") initiated a broad-based seismic safety study and analysis of its facilities, including the San Francisco-Oakland Bay Bridge ("SFOBB" or "Bay Bridge"), which was damaged by the earthquake's forces.

This presentation describes certain key design and construction features of one of the largest contracts resulting from the seismic safety program, the Self-Anchored Suspension ("SAS") span, including unique design elements and important facts and figures regarding the SAS span.
A Term of Opportunities

*Introduction:* My name is Mario T. Carreón, P.E., and I feel honored to serve the Capital Branch as president for the 2012-13 term. As a northern California native from nearby Yuba City, I have not veered too far from my birthplace on my journey to becoming a Civil Engineer. Since graduating from UC Davis, I have worked in private consulting in the Sacramento area for the past 14 years. I currently live in Sacramento and work for RSC Engineering, Inc. in Roseville, a small firm that provides civil engineering, site planning and surveying services.

After serving as Secretary of the Capital Branch for two years, I made the three-year commitment to continue serving on the board. However, I couldn’t have made this pledge without the full support of my wife, Marisa, and my son, Mateo, who graciously excuses me for a couple of nights a month to fulfill my Branch duties.

*It’s A Team Effort:* It is a privilege to be part of a team of knowledgeable, personable and experienced professionals, who genuinely strive to make your monthly luncheon experience enjoyable and fruitful. As an avid football fan, I’d like to introduce my teammates with a little NFL flair:

**Darren Mack, P.E., G.E. (SAGE), President-Elect** …Darren is our first-round pick and future of the Capital Branch franchise; he joins us with past leadership experience as Chair of the ASCE San Francisco Section Geotechnical Group (now SFGI).

**Ajay K. Sehgal, P.E. (Caltrans), Vice President of Education** …Ajay is our speedy wide receiver, blazing down the field to engage & schedule our next luncheon speaker. Ajay will also be our first speaker of the new term and will deliver an insightful presentation on the Self-Anchored Suspension (SAS) Bay Bridge on Tuesday, October 23, 2012. Online registration via Eventbrite: [http://asce-lunch-oct23.eventbrite.com](http://asce-lunch-oct23.eventbrite.com).

**Richard Weitzenberg, P.E. (SMUD, retired), Treasurer** …Dick is the anchor of the Branch defense, I mean Treasury; his sharp eye on our finances and vast knowledge of local Branch history keeps the board on task on a monthly basis.

**Doran Glauz, P.E. (Caltrans), Secretary** …Doran was signed as a free agent mid-way into the ‘11-’12 term, filling an unexpected vacancy. Having him in the starting lineup from the get-go will be a huge plus this season.

**Alfred R. Mangus, P.E. (PECG), Past-President** …Al is the wise veteran, ready to offer a few key tips before exiting the stadium. Of course, Al’s work is not done since he’s the Chair of the 3rd Orthotropic Bridge Conference scheduled for June 2013.

*Making a Choice:* Regardless of who is elected President of the U.S. this upcoming November, it is my belief that as Americans, we should feel grateful for having the opportunity to choose (vote). Similarly, we have chosen to join ASCE, an organization that supports the civil engineering profession and provides its members with opportunities to grow, if they choose. I am glad that I made a choice to serve the Branch, and feel grateful to have the support of our local membership. I look forward to a year in which it will be easier for members to make the choice to take a mid-day break on the fourth Tuesday of each month to enjoy more than a sensible meal. Chances are that you may not notice the goals outlined above being implemented, but if you find yourself having a little more fun, or overhear someone say, “I’m really glad I came this month,” then our team will feel like we scored a touchdown!
ASCE Sacramento Section 2012 Outstanding Engineering Project Award Entry Criteria

The Sacramento Section Outstanding Civil Engineering Project Award is presented by the Sacramento Section of ASCE to a project that demonstrates the greatest engineering skills and represents the greatest contribution to civil engineering progress and to society. In addition to the Outstanding Project of the Year award, additional subcategory awards will be given to projects of significance for their particular category of civil engineering. The sub-categories are listed on the Entry Form below. Given to the project rather than to an individual, the Award(s) honor the outstanding work of the many engineers who have contributed to the project.

Rules:
1. The project must be predominantly civil engineering work.
2. The project must be located in the Sacramento Section area.
3. The project must meet one of the following eligibility criteria:
   • Bridges, tunnels, waterways, structures, roads: eligible when carrying traffic.
   • Water supply, flood control facilities: eligible when ready to take the full design head of water.
   • Power dams: eligible when the major civil-engineered construction is completed.
   • Fuel power plants, heating or cooling facilities: eligible when power goes on-line.
   • Buildings and structures: eligible when ready for use.
   • Airports and other similar large developments: eligible when initial phase is 75% operational.
   • Water supply, waste disposal: the entire project is eligible when its initial phase is 50% operational.
   • Military projects (such as bases, launching units and harbor facilities): eligible for their engineering aspects.
   • Urban development or recreation facilities: When open for public use.
   • Natural resources restorations: When restoration is complete.

The judging committee will determine the eligibility of projects not categorized above.

Judging Criteria:
1. Contribution to the well-being of people and communities.
2. Resourcefulness in planning and solving design challenges.
3. Pioneering in use of materials and methods.
4. Innovations in construction.
5. Impact on physical environment.
6. Beneficial as well as adverse effects of the project, including aesthetic value.

Entry Format:
The award entry should inform the reader about the project and emphasize the appropriate items listed in the judging criteria above as well as any significant features of the project. Photos and/or drawings of significance should be included.

Nominations:
1. Nominations may be submitted by any ASCE - Sacramento Section member.
2. Nomination materials must be received by January 4, 2013, for projects meeting eligibility in 2012.
3. Five (5) copies of the nomination must be submitted and accompanied by the Entry Form.
4. A non-winning project from an earlier year may be renominated if it meets the eligibility rules.
5. Send applications to: Natalie E. Calderone, Senior Director, ASCE Sacramento Section, c/o AECOM, 2020 L Street, Suite 300, Sacramento, CA 95811, or by e-mail to: natalie.calderone@aecom.com.

Nominations will be judged by a panel comprised of Awards Committee (made up of past presidents or other section officers) of the Sacramento Section. A plaque for permanent display will be given to the project owner and a certificate to the designer by the Section in an award presentation ceremony as part of Engineers Week in February. For further information, contact the ASCE office at 916-961-2723 or asce@sacto.org.

Additional Categories: Small Project (under $5.0 million) Structural Water/Wastewater
Environmental Geotechnical Architectural
Transportation and Development Sustainability Bridge
2012 ASCE Outstanding Engineering Project Award
Entry Form

General Information:
Please complete the following information and submit 5 copies with a letter explaining the project and stating why you feel this project should receive this award.

Entries Due: January 4, 2013

Please send this information to:
Natalie E. Calderone, Senior Director
ASCE Sacramento Section
c/o AECOM, 2020 L Street, Suite 300
Sacramento, CA  95811
E-mail: natalie.calderone@aecom.com

Entries should meet the entry criteria stated for this award, will not be returned, and will become the property of ASCE, Sacramento Section.

Project Information:
Project name (exactly as it should appear on a plaque):
Project location (city, state):
Completion date:
Enter up to three (3) categories to be considered for in addition to Project of the Year:
Small Project ___  Structural ___  Water/Wastewater ___  Environmental ___
Geotechnical ___  Architectural ___  Transportation ___  Sustainability ___  Bridge ___

Entrant Information:
ASCE Member:  __Yes ___No                Sacramento Section Member:  _____ Yes _____ No
Submitted by:  ______________________________________________________________________
Title:  ______________________________________________________________________________
Employer:  __________________________________________________________________________
Address:  ____________________________________________________________________________
City: _______________________ State ________ Zip _______________
Phone ________________________ Fax __________________________
Signature__________________________________________ Date _________________________________

Project Owner Information:
Project owner (attach addendum for more names) ___________________________________________

Contact Person:  __________________________________________________________________________
Address:  ____________________________________________________________________________
City: _______________________ State: ________ Zip: __________________
Phone: ___________________________ Fax: __________________________________________________________________________
November 8
2012
Evening with AN INDUSTRY

Join us for the 9th annual Evening with Industry!
5:30 pm At the Sacramento State Alumni Center

Brought to you by the Civil Engineering Program Industrial Advisory Committee (CEPIAC) and the Department of Civil Engineering

Keynote Speaker
Joe Countryman,
Central Valley Flood Protection Board

Featuring a panel discussion with practicing engineers and a social hour for students to interact with industry representatives

To purchase tickets or to become a sponsor, contact Neysa Bush at: (916) 278-6982 or nbush@csus.edu

New Members of the Sacramento Section for August

Capital Branch
Jacquelyn Allmond EIT, S.M.ASCE
Corey Matthew Fujitani EIT, A.M.ASCE
Blake Johnson Aff.M.ASCE
Herman P. Miller P.E., M.ASCE
Joshua Summers EIT, A.M.ASCE
Robert MacPherson Tull P.E., M.ASCE

Central Valley Branch
Simon Boone A.M.ASCE

Shasta Branch
Leslie Lyle Converse M.ASCE