



# The Civil Engineer

Monthly Newsletter for Members of the San Francisco Section, ASCE

Golden Gate / San Jose / Redwood Empire / North Coast / Fresno

Celebrating Our 109th Year

June 2014, Volume 61, No. 6

## Call for Nominations

### 2014 SECTION AWARDS

**Submission Deadline:**  
**June 30, 2014**

The Section Annual Awards recognize individuals and organizations who deliver excellence and inspire others through outstanding contributions in the field of Civil Engineering.

#### Nomination Submittal Information:

Applications are being accepted for outstanding Individuals and Project awards. To download the Nomination forms visit the following link:

<http://asce-sf.org/san-francisco-section-awards/>

For questions, please contact the SF Section Awards Chair, Rune Storesund:

[rune@storekundconsulting.com](mailto:rune@storekundconsulting.com)



## PRESIDENT'S MESSAGE

*by Benjamin Holton, P.E., M. ASCE,  
President, Fresno Section*

Memorial Day has come and gone, and with it a reflection on what we have sacrificed to be where and what we are as a nation. That sacrifice does not extend solely to our friends and family who have served, but also to those who strive to make this nation better every single day by their actions. Our careers as engineers are a pivotal piece in guiding that change for the better. Be it through improved and sustainable design, helping our denizens discover the importance of engineering, or holding those that would follow in our footsteps to a higher standard, that this world would be set upon by their fresh, young eyes, so eager to find its inefficiencies and amend them.

Reflecting on this past term as Fresno's president, so much of what we were able to accomplish as a branch probably wouldn't have been possible without the foundations laid down from the trip to the Presidents and Governors Forum in Virginia last September. Being able to attend and witness firsthand some of the most eager ASCE activists is inspiring, and many of the ideas brought back from the conference have already been implemented through our organization this year, with many more set to follow in the years to come. Standing in a room with delegates from as far away as Juneau, Alaska and St. Leonards, Australia really puts into perspective what we're trying to achieve as an organization in influencing those changes mentioned above, and several of our most stalwart local members would be proud to see that, on a national level, our ideas are being implemented.

Perhaps one of the most important but often most easily forgotten ideas is recognition. Be that recognition from your local branch for the various infrastructure improvements to our communities, or the recognition of local students for showing a dogged determination in putting on an unbelievable MidPac, just showing and rewarding interest outside of our individual day to day projects is key in not only expanding what and who we know but in creating interest where before there was none. There have been a fair few occasions this past year where someone we've not seen since my involvement in our local branch has come out of our engineering underbrush and shown an interest in connecting with our community, because they saw on the news that some of our brethren were being honored at City Hall or because we took over a venue for MidPac where everyone from Justin Timberlake to Shania Twain has performed. Recognition of engineering and what we do as engineers is crucial.

As I am personally fond of great quotes I will leave you with this from Clarence Birdseye, "Only through curiosity can we discover opportunities, and only by gambling (on them) can we take advantage of them."

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# REGION 9 GOVERNOR'S REPORT

## Student Chapters

*By Larry Pierce, P.E., M.ASCE, ASCE Region 9 Governor (San Diego Section) and Jeniene Knight M.ASCE, San Diego Section Director and 2014 PSWC Advisor*

What a year fantastic year for our student chapters! This year's Pacific Southwest Conference was hosted by San Diego State University under the direction of Amanda Corbett, S.M.ASCE; Carly Scott, S.M.ASCE, PSWC Advisor Jeniene Knight M.ASCE; Faculty Advisor Dr. Janusz Supernak LM.ASCE; Miguel Gonzalez, SDSU President, S.M.ASCE; Ramzy DeCastro, SDSU Past President, E.I.T. S.M.ASCE; and Mark Webb M.ASCE. Student members increased their professional growth and strengthened their bond within ASCE. What made this conference unique was a strong outpouring of support from other professional societies and unifying student chapters from Region 8 and 9 with special networking and fun ice breaker sessions like ASCE's Got Talent!

We are truly grateful for the support and hard work from our SDSU student members, the San Diego Section and YMF, and Region 9 Board of Governors. Larry Pierce and Mark Norton, Region 9 Board of Governors, participated as Steel Bridge Competition Judges and spoke to many students about ASCE. Larry Pierce and Jeniene Knight also promoted ASCE and member benefits at the



*UCSD Seismic Outreach Program*



*PSWC: SDSU Student Chapter*

Employment Fair. San Diego Section Officers - Tim Shell, Steve Fitzwilliam, Mark Webb, Mark Hill all participated and supported in the many activities at PSWC. The PSWC kick-off of events and concrete canoe races were highlighted by local news media. The San Diego Section will be presenting a special plaque at the 25th Annual Awards Banquet to San Diego State University as the Outstanding Student Chapter for their exemplary work hosting the 2014 Pacific Southwest Conference. The Section will also honor student members, Amanda Corbett from SDSU and Shaina Nocum from UCSD, as this year's Outstanding Civil Engineering Student Award. Their service and dedication to ASCE are exceptional.

What's shaking at the University of California, San Diego? UCSD's Seismic Outreach Program is a one-of-a-kind educational and hands-on program for 6th graders. The program, run by Minh Nguyen (UCSD student director) and UCSD student members, has over 1,500 6th grade participants. They learn earthquake engineering basics, form teams to design and construct structures using K'Nex, and test their structures on a mini-shake table at UCSD. The Seismic Outreach Program is expanding to other student chapters throughout Region 9 by Colin Haynes (program founder, UCSD Doctoral Student) and Scott Ouellette (UCSD Doctoral Student).

Our 2014 Charles A. Smith Scholarship award winners were Kimberly Bowes (UCSD S.M.ASCE) and Kaitlyn Heid (SDSU S.M.ASCE, Vice President External, PSWC Committee). Congratulations to our Student Chapter Presidents, Miguel Gonzalez (SDSU) and Jackrin Vipatapat (UCSD), and all of our student members for a successful year! We look forward to their continued growth within ASCE.



*PSWC: UCSD Student Chapter*

# BRANCH REPORTS

## Golden Gate Branch

### May 29th Dinner Meeting: Sea Level Change

On May 29th the Golden Gate Branch was treated to a presentation by Rebecca Verity which covered the numerous impacts of Sea Level Change. With so many waterfront facilities in the Bay Area, and new regulations in place that require engineers to account for climate change, this was a most insightful and educational topic for those in attendance. Suitably, the dinner program was held along the beautiful San Francisco waterfront at Sinbad's Pier 2 Restaurant.

### June 19th Dinner Meeting with SFGI: Lake Elizabeth BART Subway

Our June program is a joint event with our friends at the Geotechnical Institute and will feature Mitch Fong of Parsons Brinckerhoff to present the Lake Elizabeth BART Subway project. As part of the overall Warm Springs BART Extension project, the Lake Elizabeth Subway is certainly one of the project highlights. Choosing to tunnel under Lake Elizabeth preserved the serenity of the lake, a premier attraction of the Fremont Central Park, and posed some unique construction challenges. Please join us to hear the tunnel presented by somebody who stood on the front lines of this project.

Date and Time:

Thursday, June 19th, 2014 from 6:00 to 8:30 p.m.

Location:

Scott's Seafood Jack London Square, 2 Broadway, Oakland

Entrée choices:

Salmon, Chicken, or Pasta Primavera

RSVP:

<http://events.constantcontact.com/register/event?llr=bhsf5wjab&oeidk=a07e9cogy03a8daae4>

More information:

Russ Moore, [goldengate@asce-sf.org](mailto:goldengate@asce-sf.org)

## Redwood Empire

### Monthly Luncheon: Seismic Product and Studies

1. Bamcore: structural sheets made of bamboo and wood for horizontal roofs, floors, and diaphragms and vertical wall framing and shear resistance. ZFA is providing structural assistance in the development of this new product.
2. Seismic rehabilitation: San Francisco Soft Story Ordinance. Information on the purposes of the city mandated seismic retrofit ordinance and brief descriptions of the analysis methods and likely required building revisions.

3. ATC 78 development. Assessment of older concrete buildings to determine their collapse risk. An overview of concrete building design development over the years and a new effort to develop a tool to assess the collapse danger from older concrete buildings.

### Speakers: David R Cooper, Andrew Zafrin, Christian Botto

David R. Cooper, SE, Principal at ZFA Structural Engineers obtained his Bachelor of Science in Civil Engineering degree from Montana State University, and has more than 33 years of experience performing structural design, construction review, and project management. He is a California licensed civil and structural engineer and has been a Principal at ZFA for more than 17 years. His work includes a number of winery projects, work with civil engineers on their projects, industrial design and expertise in the design of unusual structural material such as aluminum, stainless steel, and rammed earth/ stabilized soil.

Andrew Zafrin, SE, Senior Engineer at ZFA Structural Engineers obtained his Bachelor of Science in Architectural Engineering from California Polytechnic State University in San Luis Obispo. He has been with ZFA since 2005 where his expertise lies in the technological aspects of structural design, making use of Autodesk Revit software to configure, analyze, and provide construction support for structures of high technical difficulty. These structures range from ultra-modern residences to traditional commercial projects; from educational facilities to hospitals and other public structures. In addition to the conventional construction methods and materials, Mr. Zafrin has designed panelized framing systems and has used experimental building materials with consideration of reduced construction waste and renewable resources. Throughout Mr. Zafrin's tenure at ZFA, he has also been involved in the industrial and energy sector, working closely with General Electric and associated power generation vendor companies all over the world. He has completed the State of California CAL EMA Safety Assessment Program and is on the earthquake response team for Pacific Gas & Electric.

Christian Botto, PE, Engineer at ZFA Structural Engineers obtained his Bachelor of Science in Civil Engineering from San Francisco State University and has worked a total of 16 years in the construction industry with residential and commercial projects and four years with ZFA Structural Engineers. He began his career working for a Construction Management company on the SFO airport expansion and also has construction experience working in Central America. Christian is passionate about seismic retrofit of existing structures and is working on projects under the new San Francisco Mandatory Soft Story Retrofit program for ZFA.

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Branch Reports continued on page 4



Date/Time:

Thursday, June 12, 2014 at Noon

Location:

Cattlemen's, 2400 Midway Drive, Montgomery Village, Santa Rosa

Menu:

A) Sirloin Steak; B) Teriyaki Chicken; or C) 3-Cheese Pasta; each choice includes salad, bread, coffee, and tea

Cost:

\$20 (\$10 for students)

RSVP:

Email Blake Caricato at [blake@summit-sr.com](mailto:blake@summit-sr.com) with your lunch order by Tuesday, June 10th.

## YOUNGER MEMBER FORUM



San Francisco YMF

Thank you GHD!



The second office tour event of the year was held on April 29 at GHD and featured a tour of their brand new office as well as a presentation by GHD Senior Manager and long-time SF Section member Mike Kincaid. Food, refreshments, and a great view of the bay were enjoyed by all. The YMF office tour series continues to be a resounding success!

### YMF Scores a Home Run

Despite our hometown team's loss against the Atlanta Braves, the YMF trip to the ballpark was a great event with 30 participants and a lively pre-game happy hour at 21st Amendment Brewery. The ASCE SF YMF had their name featured on the scoreboard and since our seats were in the bleacher section, participants were free to mingle and get to know each other. YMF has received so much positive feedback that another Giant's game is being planned for the summer!

### 2014 Charity Golf Tournament TOURNAMENT, GAMES, PRIZES & BANQUET



JUNE 20TH, 2014 • SUNOL VALLEY

### 2014 ASCE San Francisco and San Jose YMF Charity Golf Tournament and Dinner Banquet

Date and Time: June, 20, 2014 - 11:30 a.m. - 8:00 p.m.

Location: Sunol Valley Golf Club, 6900 Mission Road, Sunol

### Tournament, Games, Prizes and Banquet

Come golf with peers and colleagues in the engineering, architecture, and construction community. The half-day event features a shamle format tournament, lunch, a goodie bag, men's and women's longest drive competitions, circle-hole competition, closest-to-the-pin competition, a high-tech raffle, and an awards banquet.

### Benefiting ACE Mentor San Francisco Bay Area

The ACE Mentor Program gathers volunteer professionals from the architecture, construction and engineering fields to mentor high school students and enlighten them to the career options in these fields and the construction trades. ACE teams run for 15 weeks during the school year. The ACE Mentor San Francisco Bay Area, Inc. affiliate has teams in San Francisco, Oakland, Contra Costa County, Peninsula, San Jose and Vallejo.

### Registration and Sponsorship Information

The registration deadline is June 1, 2014. Contact Shawna Von Stockhausen at (925) 398-7262 or by email [Shawna.VonStockhausen@hatchmott.com](mailto:Shawna.VonStockhausen@hatchmott.com) for sponsorship or registration questions. You can also visit the website: [www.sjymf.org/golf.html](http://www.sjymf.org/golf.html) or <http://sfymf.org/events/2014-asce-ymf-charity-golf-tournament-and-dinner-banquet/>

# THIS MONTH IN SACRAMENTO

By *Richard Markuson, Region 9 Legislative Advocate*



## Water Bonds

Assembly Member Rendon (D-Lakewood) has amended one of his bond bills – **AB 1331** – to specify that the one hundred million dollars (\$100,000,000) for groundwater shall be available “for grants for treatment and remediation activities that prevent or reduce the contamination of groundwater that serves as a source of drinking water.” Still missing is language some members insist being included including “continuously appropriating water storage funding.” This language is in **AB 2043** (Bigelow R-O’Neals) that was passed by the Assembly Water Committee at the end of April. Rendon’s other water bond – **AB 2554** – includes this language in an \$8.5 billion package that includes \$3 billion for water storage. Also moving is Assembly member Perea’s (D-Fresno) **AB 2686**, a \$9.25 billion version of the water bond; **SB 1250** (Hueso D-San Diego;) and **SB 1370** (Galgiani D-Stockton) were heard in committee but not approved. Undoubtedly, the various bills will be sent to a conference committee to iron out the differences so something can appear on the November ballot.

[http://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill\\_id=201320140AB1331&search\\_keywords=](http://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill_id=201320140AB1331&search_keywords=)

[http://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill\\_id=201320140AB2043&search\\_keywords=](http://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill_id=201320140AB2043&search_keywords=)

[http://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill\\_id=201320140AB2554&search\\_keywords=](http://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill_id=201320140AB2554&search_keywords=)

[http://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill\\_id=201320140SB1250&search\\_keywords=](http://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill_id=201320140SB1250&search_keywords=)

[http://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill\\_id=201320140SB1370&search\\_keywords=](http://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill_id=201320140SB1370&search_keywords=)

## BDCP

**AB 1671** (Frazier D-Oakley) requires legislative authorization for any facilities in the Sacramento-San Joaquin Delta (Delta) that would move water from new north Delta intakes by tunnel to the State Water Project (SWP) or Federal Central Valley Project (CVP). The bill was set for its first hearing but was cancelled.

[http://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill\\_id=201320140AB1671&search\\_keywords=](http://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill_id=201320140AB1671&search_keywords=)

## Fracking

Three bills were acted upon this month. **AB 2420** (Nazarian D-Sherman Oaks) allows a city or county to adopt and enforce a local ordinance prohibiting well stimulation treatments. **SB 1132** (Mitchell D-Los Angeles) expands the scope of the independent scientific study to evaluate the risks and impacts of well stimulation techniques and related activities. This includes an evaluation of offshore well stimulation sites, human health risks, economic costs, disadvantaged communities, pipeline infrastructure, and emergency response. The bill prohibits further well stimulation treatments until the independent scientific study is complete and has been reviewed by a committee composed of a representative from the Natural Resources Agency, California Environmental Protection Agency, CARB, SWRCB, and Department of Public Health. **SB 1281** (Pavley D-Agoura Hills) would reiterate and revise state policy on water use in the oil and gas fields and expand upon monthly reporting requirements.

[http://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill\\_id=201320140AB2420&search\\_keywords=](http://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill_id=201320140AB2420&search_keywords=)

[http://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill\\_id=201320140SB1132&search\\_keywords=](http://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill_id=201320140SB1132&search_keywords=)

[http://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill\\_id=201320140SB1281&search\\_keywords=](http://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill_id=201320140SB1281&search_keywords=)

## Groundwater

**AB 1739** (Dickenson D-Sacramento) 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 economic, social and environmental impacts due to an unsustainable and chronic pattern of groundwater extractions exceeding the ability of the surface water supplies to replenish the subbasin. **SB 1168** (Pavley) would enact the Sustainable Groundwater Management Act, and would state as the intent of the Legislature that, among other things, all groundwater basins and subbasins shall be managed sustainably by local entities pursuant to an adopted sustainable groundwater management plan. This bill would authorize unspecified entities to develop a sustainable groundwater management plan, defined as a document that describes the activities intended to be included in a groundwater management program, to be developed and adopted to encompass an entire basin or subbasin in an unspecified manner, and according to an unspecified schedule.

[http://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill\\_id=201320140AB1739&search\\_keywords=](http://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill_id=201320140AB1739&search_keywords=)

[http://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill\\_id=201320140SB1168&search\\_keywords=](http://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill_id=201320140SB1168&search_keywords=)

*This Month in Sacramento continued on page 6*

## **HSR**

**AB 2650** (Conway R- Tulare) was killed in the Transportation Committee. It would place a referendum on the ballot to repeal the California High-Speed Rail Authority bonds.

[http://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill\\_id=201320140AB2650&search\\_keywords=](http://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill_id=201320140AB2650&search_keywords=)

## **Project Delivery**

The Assembly Transportation Committee approved **AB 1724** (Frazier) that authorizes regional transportation agencies (RTAs) to use an alternative procurement method referred to as construction manager/general contractor (CMGC) contracts.

[http://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill\\_id=201320140AB1724&search\\_keywords=](http://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill_id=201320140AB1724&search_keywords=)

## **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.

[http://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill\\_id=201320140AB2636&search\\_keywords=](http://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill_id=201320140AB2636&search_keywords=)

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.

[http://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill\\_id=201320140SB1259&search\\_keywords=](http://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill_id=201320140SB1259&search_keywords=)

## **Recent Reports**

PublicCEO issued a primer on the California drought. They found "the 2013-14 water year will probably end up being in the range of the third to fifth driest year in more than 90 years of recordkeeping. Because the previous two years were also quite dry, the state's largest reservoirs are at about 50 percent of their average storage for this time of year. A few more inches could fall in the remainder of this water year."

<http://www.publicceo.com/2014/05/a-cheat-sheet-on-the-ca-drought/>

Dept. of Water Resources releases 2013 FloodSAFE California Annual Report, outlines key accomplishments of various flood planning and preparedness programs as well as an overview of its investments of public funds.

[http://www.water.ca.gov/floodsafe/docs/2013-FloodSAFE-AnnualReport\\_March2014.pdf](http://www.water.ca.gov/floodsafe/docs/2013-FloodSAFE-AnnualReport_March2014.pdf)

Environment California has released Shining Cities: At the Forefront of America's Solar Energy Revolution, finds Los Angeles ranks first among major cities in the nation for total amount of installed solar power and that San Diego, San Jose, San Francisco, and Sacramento join LA in the top 20.

<http://www.environmentcaliforniacenter.org/reports/cae/shining-cities>

The Legislative Analyst's Office has released The 2014-15 Budget: Maintaining Education Facilities in California, recommends the Legislature require educational facilities in California to "develop plans that detail how much they set aside annually for scheduled maintenance, how they plan to eliminate their existing deferred maintenance backlogs over the next several years, and how they plan to avoid creating new backlogs thereafter."

<http://lao.ca.gov/Publications/Detail/3000>

Californians Against Higher Oil Taxes, a coalition of business, taxpayer, and petroleum industry groups, releases Oil and Gas in California: The Industry and Its Economic Contribution in 2012, findings include "petroleum industry contributes greatly to California's economy by paying \$21.6 billion in state and local taxes and by directly employing more than 188,000 Californians."

[https://www.wspa.org/sites/default/files/uploads/O%26G\\_Contribution\\_20140418.pdf](https://www.wspa.org/sites/default/files/uploads/O%26G_Contribution_20140418.pdf)

UCLA Institute of Transportation Studies has released Cost-Effectiveness of Reductions in Greenhouse Gas Emissions from California High-Speed Rail and Urban Transportation Projects. "As California establishes its greenhouse gas emissions cap-and-trade program and considers options for using the new revenues produced under the program, the public and decision-makers have access to tenuous information on the relative cost-effectiveness of passenger transportation investment

options. In a step toward closing this knowledge gap, we compare the cost-effectiveness of greenhouse gas reductions forecast to come to California High-Speed Rail with those estimated from recent urban transportation projects (specifically light rail, bus rapid transit, and bicycling) in California. The goal of the study is to link life-cycle greenhouse gas emissions estimates with full cost accounting to better understand the benefits of cap-and-trade investments.”

<http://www.lewis.ucla.edu/wp-content/uploads/sites/2/2014/03/Cost-Effectiveness-of-Reductions-in-Greenhouse-Gas-Emissions-from-California-High-Speed-Rail-and-Urban-Transportation-Projects.pdf>

### Appointments

The Governor has made the following appointments:

- To **Sacramento-San Joaquin Delta Conservancy**: *Michael Eaton* (reappointed), Galt, owner of Kingbird Farms.
- To **Western States Water Council**: *Betty Olson* (reappointed), Trabuco Canyon, professor of civil and environmental engineering at the UC Irvine Henry Samueli School of Engineering.
- To **Colorado River Basin Salinity Control Forum** and to the **Colorado River Basin Salinity Control Advisory Council**: *William Hasencamp*, Los Angeles, manager of Colorado River resources at the Metropolitan Water District of Southern California.

## THE LAW AND CIVIL ENGINEERING

### Contracts for Professional Engineering and Surveying Services Must Be in Writing

by *Eugene Bass, Esq.*

Professional engineers and licensed land surveyors must use written contracts for professional engineering and surveying services. Written contracts are defined to include contracts in electronic form. There are also certain exceptions to the requirements for written contracts.

Written contracts for professional engineering and surveying services must be signed by all parties prior to commencement of work unless the client states in writing that the work can commence before the contract is executed. The contract must contain at least the following provisions. (1) A description of the services to be provided to the client, (2) A description of any basis of compensation applicable to the contract, and the method of payment, (3) The name, address, and license or certificate number of the surveyor or engineer, and the name and address of the client, (4) A description of the procedure that the surveyor or engineer and the client will use to accommodate additional services, and (5) A description of the procedure to be used by any party to terminate the contract.

The law also provides for situations where written contracts are not required. They are; (1) Where engineering or surveying services are to be provided for which the client will not pay compensation, (2) Where the engineer or surveyor has a current or prior contractual relationship with the client to provide services, and that client has paid all of

the fees that are due under the contract, (3) Where the client knowingly states in writing, after full disclosure of the legal requirements for written contracts, that a contract which complies with the requirements of the law is not required.

Written contracts are also not required where services are rendered to any of the following; (1) A registered engineer, (2) A licensed land surveyor, (3) A licensed architect, (4) A licensed contractor, (5) A licensed geologist or geophysicist, (6) A manufacturing, mining, public utility, research and development, or other industrial corporation, if the services are provided in connection with or incidental to the products, systems, or services of that corporation or its affiliates, and (7) A public agency.

Special care should be taken to make sure that a written contract is fully executed before commencing with any engineering work where a written contract is required by law. Failure to do so is a violation of the law and could render the contract illegal and unenforceable and prove to be a significant problem if the engineer has seek court enforcement of the “contract.”

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This article is intended to provide general information regarding legal issues. It is not to be relied upon as specific legal advice or in place of the need to seek competent legal advice on specific legal matters. Eugene Bass is an attorney and registered Civil Engineer. He has offices in Redwood City and can be reached at 650-369-7990.

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**The Civil Engineer**

**ADVERTISING**

Our readership includes 5300 Civil, Environmental, Geotechnical, Structural Engineers throughout the Golden Gate, Fresno, North Coast, Redwood Empire and San Jose ASCE Branches.

We offer advertising as a combination newsletter and website ad.

We also offer a WEB ONLY ad special.

**Classified Job Ads for Newsletter and Website combo:**

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- \$20 for each additional 10 words
- All job ads will be posted on the web

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- \$150 for a maximum of 250 words

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1/2 page:	\$400	7 3/4"	4 3/4"
		4 3/4"	8"
1/4 page:	\$200	7 3/4"	2 1/4"
		2 1/4"	7 1/4"

Submit finished ads via Email to:  
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Display ads must be supplied by the advertiser and formatted as a PDF or jpeg document.

**FULL PAYMENT IS REQUIRED AT TIME OF ORDER.**

**The Civil Engineer**

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The Civil Engineer is published regularly on the first day of each month. Articles are solicited from the San Francisco Section membership as well as the general engineering community. Articles, meeting notices, and photographs should reach the Civil Engineer Editor, Section Office (see below), **BY THE TENTH OF THE MONTH**. Copy must be emailed to Ken Miles at [kmiles@hp-assoc.com](mailto:kmiles@hp-assoc.com). The Society and the Section are not responsible for any statement made or the opinions expressed in their publications.

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Geographic Services is proud to announce the Continuing Education schedule of seminars and workshops for the spring and summer that are scheduled in your geographic area. These seminars/workshops have been produced by ASCE's Continuing Education Department with your members in mind. Call 800-548-2728 for more information.

Workshop Title	Dates	Location
Design of Concrete Pavements - NEW	June 5-6, 2014	Long Beach, CA
Design and Construction of Launched Bridges - NEW	July 10-11, 2014	San Francisco, CA
Seismic Design of Highway Bridges	September 4-5, 2014	Long Beach, CA