



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

April 2014, Volume 61, No. 4

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PRESIDENT'S MESSAGE

*by Tom Hammond, President,
Redwood Empire Branch*



Hello San Francisco Section and greetings from the Redwood Empire Branch.

We really are nothing without our volunteers. We just had our annual Engineers Week Banquet. We joined up with the North Coast Chapter of ACEC to host a scholarship presentation and celebration of engineering. As a group, in addition to two private donors, we were able to present \$8,200 in scholarships to Santa Rosa Junior College (SRJC) students pursuing degrees in engineering, surveying and civil technology. Our scholarship committee, who has been the same for the last 7 years, in coordination with SRJC Professors did the majority of the work to obtain said recipients. We are grateful for our silent auction item donors and banquet participants, but like all engineers we over analyze the real price in order to get a better price when in reality it is a fund raiser, so relative price is not real; bid more, be happy, think less, feel good, repeat.

My message for this year is Thank you Volunteers. It feels good to volunteer, it feels good to spend your hard earned money and time by giving it to ambitious folks pursuing a career you love. Or if you don't love it you should really think about doing something else, because life is way too short to spend a third or more of your day not engaged in your work. If you have had any encounters with death via loved ones I'm sure this hits home close to the bone. Stay positive, you could just be worm castings, but instead you get to have influence on how the world around you function's, is shaped and ultimately this forms our culture.

Recently I thought to myself, why do I volunteer? In my interpretation of Ashley Lucas our Scholarship coordinator, she volunteers because it is a way to give back to a process she went thorough when she was in school. I volunteer with ASCE because I like to be engaged in my community. What this volunteering has done however has far exceeded my original expectations. It has expanded my network of colleagues, friends, and possible business partners which in turn has brought me greater awareness of what is going on in the engineering community. It has given me opportunities to interview for jobs that I wasn't necessarily on the short list for. It has provided me with leadership training and real life leadership experience. I've often found that what you put in you get out.

For me ASCE provides a foundation for our community to gather around and be a community. When you volunteer you get to be more involved with that community. So get out there and volunteer and be passionate about what you do because it really does matter.

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REGION 9 GOVERNOR'S REPORT

Responding to California's Drought and Beyond

By *Mark R. Norton, P.E., F.ASCE, Chair, ASCE Region 9 (California) Water Committee*



On Saturday, March 1st the media announced the signing by the governor of new Emergency Drought Legislation SB 103 and SB 104, as California grapples with one of the driest periods in its recent history. This legislation received broad, bipartisan support and provides \$687.4 million to support drought relief, money for housing and food for workers directly impacted by the drought, bond funds for projects to help local communities more efficiently capture and manage water and funding for securing emergency drinking water supplies for drought impacted communities.

To support our State's long term water portfolio and serve as a voice for water infrastructure, ASCE Region 9 Board of Governors established a Water Committee back in March 2009. The Committee is composed of ASCE water management professionals from each of the ASCE Sections across the State. Our main role is to actively participate in monitoring and development of legislative bills and policies that affect water infrastructure. We conduct this work by working closely with our ASCE Region 9 lobbyist, Richard Markuson, to review new legislation and policies each year and provide recommendations to the ASCE Region 9 Board of Governors to take action. This action may be in the form of letters of support, opposition, or suggestions for new text to legislators to better reflect the needs of water infrastructure for the State of California.

The Water Committee conducts this work through monthly conference calls as well as visits each year to the State Capitol with the key legislators and Administration staff who oversee water and natural resource legislative committees and departments. The work that the Committee conducts is often done in tandem with other California water associations on an issue so that resources can be maximized to greater effect and action.

Our Committee is supportive of the recent legislative action that authorizes expedited funding for projects and programs to address the dire water needs of communities hit so hard by the drought across the State. Still we recognize that more, much more needs to be done. The \$11.1 billion California Water Bond originally proposed for the State ballot back in 2010 has been postponed twice and will again be considered for Nov. 2014. Legislators are hard at work to see if it can be modified to reach electorate approval levels. If

passed, such an influx of funding would go a long way to boost water infrastructure. As pointed out by the 2012 ASCE California Infrastructure Report Card, significant investments are still needed to conserve water, build storage, capture storm flow, recycle water and better use the water we have.

With the extreme drought conditions that we are experiencing and concerns arising over adequate water supplies to meet demands, one may well ask "Aren't there drought contingency plans in place to deal with this crisis?" In 2010, the State Department of Water Resources did release the California Drought Contingency Plan to address the possibility of continuing dry conditions as called for in the California Water Plan. This Plan contains strategies and actions that State agencies must take to prepare for, respond to, and recover from droughts or water shortages. On a regional and local basis, most major retail water agencies have been involved in integrated regional water management planning and have plans in place to deal with drought conditions. Further, legislation was passed back in 2009 that mandated that water demands of retail water agencies statewide be reduced by 20% by the Year 2020. Progress to achieve these goals is being made.

As civil engineers we are entrusted by society to create sustainable conditions and enhance our quality of life. It is our role to be that advocate for water infrastructure but also to serve as a voice for the need to use water wisely. The public does not typically understand where their water comes from, how it is used - indoors and outdoors, and what happens after they use it. A greater awareness of this water use cycle needs to occur. We, as civil engineers, can be advocates of not just new water infrastructure but also for increased water demand reduction and water use efficiency which studies have shown as the most cost efficient and effective means to stretch the available water supplies. By working together through collaborative approaches, developing multi-beneficial and multi-jurisdictional water solutions that leverage available resources and maintaining the infrastructure that we currently use, we can be well on the path for sufficient water in dealing with our needs for today and tomorrow.

BRANCH REPORTS

Fresno Branch

Reserve the Date

Our next monthly luncheon will be on April 17th. Watch your email for the program announcement and to sign up.

Fresno Branch Annual Award Banquet

Fresno Branch held its Annual Award Banquet on March 27th, 2014. The event was well attended and the branch had a good time as always. Congratulations again to all award recipients again.

Golden Gate Branch

March 13th Dinner Meeting: Dismantling the Old Eastern Span of the Bay Bridge

On March 13th the Golden Gate Branch was treated to a lively presentation on the dismantling of the old eastern span of the Bay Bridge by Dr. Brian Maroney, Principal Bridge Engineer with Caltrans and Technical Director of the Dismantling Project. The evening program was held at Sinbad's Restaurant in San Francisco and sparked plenty of local interest, with over 80 guests in attendance. Dr. Maroney's presentation outlined the challenges behind deconstructing the early 20th century structure and featured many detailed photos from the original construction. Construction crews are currently working to remove the last few pieces of steel which connect the large piers and within a few months the intricacies of the project will be clearly visible to the public.

April 24th Dinner Meeting: A Historical Perspective on Bay Area Infrastructure

Our April program features a guest with whom the ASCE regulars have shared many stories. On April 24th the Golden Gate Branch welcomes Jay Murphy to present "A Historical Perspective on Bay Area Infrastructure" which will be held at Scott's Seafood in Oakland. Mr. Murphy was on the construction team for some of the Bay Area's more memorable construction projects and he has agreed to share his unique perspective on some signature projects. Please be sure to join us for what promises to be a delightful evening.

Date and Time:

Thursday, April 24th, 2014 from 6:00 to 8:30 p.m.

Location:

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

Entrée choices:

Grilled Salmon, Chicken Breast, Pasta Primavera

RSVP:

Russ Moore, goldengate@asce-sf.org

Redwood Empire

Monthly Luncheon

Natural waterways that are sited within a civil project area can experience a myriad of negative impacts to their aquatic bio-systems from the project's construction. Whether the project is bridge construction on the North Coast, roadway widening in the Bay Area, or water infrastructure construction within the Central Valley, heavy construction activities historically have had tremendous impacts to the local aquatic species within the project's footprint. There are State and Federal laws that have been enacted for the protection and survival of a species at risk, such as the Endangered Species Act and the California Environmental Quality Act, which were designed to protect critically imperiled species from extinction as a "consequence of economic growth and development untempered by adequate concern and conservation." However, even with these laws in place, there are still some types of traditional construction methods utilized within aquatic environments that can have a profound impact on the aquatic bio-system. One such method is foundation pile driving; this particular method has shown to have significant impacts on a number of aquatic species.

Mr. Jason Jurrens, PE, served as the Project Manager for the Seismic Retrofit design of the Sacramento River Bridge at Ord Ferry Road in Butte County. In addition to his project management duties, Mr. Jurrens was also responsible for supporting the environmental permitting and, specifically, the bioacoustical analysis that supported permitting from the National Marine Fisheries Service and the California Department of Fish and Wildlife for this project. Jason will share his experiences with this \$10 million project and will discuss the background, aquatic species, hydroacoustic procedures, compliance, and lessons learned on this challenging and important project.

Mr. Jurrens received his B.S. in Civil Engineering in 1998 from CSU, Chico. For the past 15 years, Mr. Jurrens has been responsible for the project development, PS&E, and construction support for both roadway and bridge projects throughout California. As both a Project Manager and Project Engineer, he is experienced in project programming, planning studies, complete roadway geometric designs, construction staging, and drainage plans for transportation projects. Of particular note is his expertise in the Caltrans utility relocation process. Mr. Jurrens has been the Roadway Project Engineer on several urban interchanges and has been responsible for managing a teams of up to 15 people. Mr. Jurrens also has experience as a Structure Representative and Resident Engineer and is an expert at

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administering Federal-Aid construction projects. Mr. Jurrens also serves as a County Project Manager and is experienced in Pavement Management Systems, development plan reviews, and developing improvement standards.

Date/Time: Thursday, April 10, 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 with your lunch order by Tuesday, March 11th.

San Jose Branch

April Monthly Lunch Meeting

The April lunch meeting will be held on Wednesday, April 9th at Bella Mia Restaurant in San Jose. This lunch meeting will feature a presentation by Thomas Grey from Caltrans involving the construction of the Tom Lantos Tunnels at Devil's Slide on State Route 1, south of Pacifica.

Mr. Grey earned his Bachelor's Degree in Civil Engineering at Gonzaga University in 1988, and has worked on variety of projects throughout California. He is now the senior bridge construction engineer for structure projects on the state highway system in San Francisco and San Mateo Counties and has worked at Caltrans for approximately 13 years.

Mr. Grey's presentation will feature a \$342 million project

which includes a 30 foot span tunnel excavated using the sequential excavation method for more than 4,300 feet. The northern end of the tunnel connects directly to a pair of 1,000 foot long bridges. The tunnel creates a long-term solution related to the infamous Devil's Slide which has historically created havoc for commuters over the past 70 years.

We hope to see you there!

Upcoming Events: The Tech Challenge 2014

Looking for ways to support S.T.E.M education? Celebrate teams of student innovators by volunteering for The Tech Challenge 2014 on Saturday, April 12 and Sunday, April 13 at The Tech Museum of Innovation.

At last year's event we had over 500 volunteers help us over two days and we couldn't have done it without them! Help us make The Tech Challenge 2014 the best it can be! Thanks for any help you can give and I hope to see you at The Tech Challenge in April!

Volunteer: <http://thetechchallengereg.thetech.org/VolunteerSelect.aspx>

Questions: Contact torme@thetech.org, or call 408-795-6205.

Last year's highlights video:

http://www.youtube.com/watch?v=HDjLec_f09A

Web Site: thetech.org

Like: [facebook.com/TheTechChallenge](https://www.facebook.com/TheTechChallenge)

Follow: twitter.com/#!/TheTechMuseum

YOUNGER MEMBER FORUM

Get Involved! YMF Info Session & Officer Meeting

Have you been wondering how you can get more involved with ASCE? Here is your chance to learn more about the organization and the important role of YMF.

Find out about open board positions, outreach events, and future activities. You don't need to dedicate your life to ASCE to become more involved, YMF has lots of opportunities to fit your schedule and interests. So come check it out! All young members are welcome!

Food and refreshments will be provided. RSVP required for building security.

Date and Time:

Tuesday, April 1, 6:00-8:00 p.m.

Location:

ARUP, 500 Mission St, SF (Montgomery BART)

RSVP:

Jennifer de Bruijn, jennifer.debruijn@arup.com

GHD Office Tour

Our very popular office tour series continues with an inside look at one of world's leading engineering, architecture and environmental consulting companies, GHD. Established in 1928, GHD employs more than 5,500 people across five continents and serves clients in the global markets of water, energy and resources, environment, property and buildings, and transportation. Join us for an evening of networking and learn about the projects GHD is currently working on in the Bay Area, meet GHD managers and staff, and get a tour of their brand new office! Food and refreshments will be provided.

Where:

GHD, 505 Montgomery St., Suite 2300, SF

When:

Tuesday, April 29, 6:00-8:00 p.m.

RSVP:

<http://events.constantcontact.com/register/event?llr=Ish5sujab&oeidk=a07e938ztc45763df4a>

GEO-INSTITUTE

The San Francisco Geo-Institute (SFGI) will be having a joint meeting with AEG April 8, 2014. Presentation topic: San Francisco's Central Subway Tunnel project presented by Ken Johnson of Parsons Brinckerhoff. Meeting to be held at Sinbad's Seafood Restaurant San Francisco 141 The Embarcadero, San Francisco, CA (next to the SF Ferry Building). Details will be broadcast by email.

EWRI

Upcoming Events

- May: Meeting/speaker topic, Fracking and Legislative Considerations. Speaker, location and date TBD.
- June: Engineers Without Borders, Kenya Team. Location/date TBD.

SF Section Sustainability Committee Call for Members

- Did you know that in 1996, ASCE revised its Code of Ethics to make the principles of sustainable development part of the canon of civil engineering practices?
- Are you passionate about sustainability in our industry?
- Do you have a few hours a month to dedicate to the advancement of sustainability programs and projects?

If you answered "yes" to any of these questions, please consider being a charter member of the San Francisco Section Sustainability Committee. Qualifications include being a member of ASCE SF Section, having a passion for advancing sustainability initiatives in our field. To learn more about Sustainability in ASCE, visit the webpage at <http://www.asce.org/sustainability/> or feel free to e-mail Russ Moore, Golden Gate Branch President at russell.moore@valicooper.com.

KPFF Portland is looking for motivated Structural Project Engineers interested in opportunity for growth.

Position Summary

As a Structural Project Engineer, you will work individually and collaboratively in the design through construction process for some of the most challenging projects in the Pacific Northwest, as well as nationally and overseas. You'll work closely with talented engineers, BIM/CAD technicians, architects, contractors and client teams.

KPFF's current projects include:

- Airports
- Long-Span Structures
- Government Facilities
- High-Rise Structures
- Corporate Campuses
- Education Facilities
- Arenas/Stadiums
- Bridges
- Commercial Developments
- Mixed-Use Developments
- Healthcare Facilities
- Convention Centers

Preferred Qualifications

- 3+ years of structural engineering experience
- PE and MS / MEng engineering degrees
- Revit Structure experience
- Strong verbal/written communication skills
- Creative, proactive, and detail-oriented
- Individuals who thrive when working directly with architects, contractors and engineers

Apply

Please submit a cover letter and resume to our website:

http://ch.tbe.taleo.net/CH10/ats/careers/requisition.jsp?org=KPFF_2&cws=51&rid=73

KPFF is an equal opportunity employer. www.kpff.com.

Location

"Portland has been described as America's most European city...a great walking city with tons of public transportation, a progressive atmosphere that celebrates the arts, a culture of great food, artisan coffee, beer and wine, and neighborhoods full of shops selling handmade clothes, crafts and furniture. As fantastic as Portland is to spend time in, it's one of the easiest cities to spend time outside. The mountains, waterfalls, wine country and other assorted outdoor goodies Oregon is so famous for are all a short drive away." www.traveloregon.com

THIS MONTH IN SACRAMENTO

By Richard Markuson, Region 9 Legislative Advocate



Five-Year Infrastructure Plan Update

In January the Brown administration released its Five-Year Infrastructure Plan, that reported statewide deferred maintenance need totaling \$64.6 billion. “By far, the largest deferred maintenance is for roads (\$59 billion). The Budget starts addressing critical deferred maintenance needs with an \$815 million support allocation for maintenance in state parks, highways, local streets and roads, K-12 schools, community colleges, courts, prisons, state hospitals, and other state facilities.”

http://www.dof.ca.gov/documents/2014-Infrastructure-Plan_WEB.pdf

Subsequent to its release the Legislative Analyst reviewed the plan and concluded “the plan raises some important policy issues related to the financing and maintenance of state infrastructure and serves as a valuable starting point for legislative discussions.” The Analyst noted “that the plan does not include some key information and suggest some changes that could make the plan more helpful to the Legislature.” Finally he reiterated a Region 9 long-term goal, “[w]e further suggest that the Legislature consider how, as an institution, it addresses infrastructure issues—for example, by creating a joint infrastructure committee.” The Assembly Budget Sub-committee #4 held a televised hearing on the plan—focused on deferred maintenance—on February 25.

<http://www.lao.ca.gov/reports/2014/budget/infrastructure/infrastructure-plan-021014.aspx>

Legislative Update

February 21, 2014 was the “bill introduction deadline.” The Legislature introduced 2,031 new bills in 2014—down from 2013’s 2,540. Last year Governor Brown signed 1,003 of the bills and vetoed 96—leaving 2,181 bills active in 2014. ASCE Region 9 committees are reviewing 113 measures.

The Legislatures only civil engineer, Senator Anthony Cannella, introduced **SR 27** to commemorate National Engineers Week.

http://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill_id=201320140SR27&search_keywords=

Assembly member Nate Holden is the author of **AB 1551**—sponsored by ACEC. It would prohibit a person from using an engineer’s submittals without the written consent of the engineer. It would also prohibit a person from using a land surveyor’s maps, plats, reports, descriptions, or other documentary evidence without the written consent of the land surveyor. The bill would prohibit an engineer or land surveyor from unreasonably withholding consent to use these documents.

http://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill_id=201320140AB1551&search_keywords=

Senator Jerry Hill introduced **SB 1433** that expands the use of design-build for transit projects and deletes a sunset date for the existing authorization.

http://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill_id=201320140SB1433&search_keywords=

The *Governor’s Five Year Infrastructure* plan has prompted a number of Legislators to introduce new measures.

AB 2290 by Assembly Speaker John A. Pérez would require the California Infrastructure and Economic Development Bank (iBank) to serve as the primary state agency for purposes of developing an application for, and applying to, any federal infrastructure bank or financing authority.

http://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill_id=201320140AB2290&search_keywords=

AB 2729 by Assembly member Medina would create in the iBank the California Infrastructure Development Center as an appropriate means for partnering with private sector infrastructure developers in a way that ensures workers, residents, and small businesses are able to participate in the broader economy.

http://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill_id=201320140AB2729&search_keywords=

Senate Bill 969 by Senator DeSaulnier would amend his peer review bill from last year (Public Works Project Peer Review Act of 2013). It would rename the program the Public Works Project Overview Improvement Act and would define a “megaproject” as a transportation project with total estimated development and construction costs exceeding \$1,000,000,000. The bill would require the agency administering a megaproject to establish a peer review group and to take

specified actions to manage the risks associated with a megaproject including establishing a comprehensive risk management plan, and regularly reassessing its reserves for potential claims and unknown risks.

http://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill_id=201320140SB969&search_keywords=

AB 1855 by Assembly member Melendez would include in LS & PE Act determination of the position of an easement as an engineering or surveying act.

http://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill_id=201320140AB1855&search_keywords=

Appointments

Governor Edmund G. Brown Jr. made the following appointments. These appointments may require Senate confirmation.

- To *Building Standards Commission* (all reappointed): **Erick Mitiken**, 50, Berkeley, Democrat, president of Mitiken Architects; **Cheryl Roberts**, 44, Alta Loma, Republican, has held multiple positions at the Rancho Cucamonga Fire Protection District including battalion chief; **Kent Sasaki**, 49, Walnut Creek, Democrat, unit manager and principal at Wiss Janney Elstner Associates Inc. (engineering and architectural consultants).
- To *California Transportation Commission* (both reappointed): **Robert Alvarado**, 61, Pinole, Democrat, executive officer at the Northern California Carpenters Regional Council; **Frances Inman**, 67, Santa Ana, Republican, founding president of the Majestic Realty Foundation and senior VP at Majestic Realty Co.
- To the *Delta Stewardship Council*: **Frank Damrell** (reappointed), 75, Sacramento, Democrat, has been of counsel at Cotchett Pitre and McCarthy LLP since 2012.

Recent Reports

Caltrans has released its first issue of "The Mile Marker: A Caltrans Performance Report," findings include: Of the more than 13,000 bridges Caltrans inspects, the number of bridges that need repair has declined from 750 in fiscal year 2007-08 to 582 in fiscal year 2012-13.

http://www.dot.ca.gov/ctjournal/2014-1/TheMileMarker_Jan2014.pdf

High Speed Rail releases Draft 2014 Business Plan, finds that the "main components of this draft plan have changed little from the 2012 Business Plan, with capital costs effectively unchanged, down by 1%. Ridership projections are increasing and farebox revenue projections are decreasing, and continuing to cover operations and maintenance."

http://www.hsr.ca.gov/About/Business_Plans/Draft_2014_Business_Plan.html

Legislative Analyst's Office has released its hearing handout "Financing the Bay Delta Conservation," presented to Assembly Accountability and Administrative Review Committee.

<http://www.lao.ca.gov/handouts/resources/2014/Financing-the-BDCP-02-12-14.pdf>

The Legislative Analyst's Office released its report, "The 2014-15 Budget: Resources and Environmental Protection," outlines the administration's proposals to shift the state's drinking water oversight program from the Dept. of Public Health to the State Water Resources Control Board and implement recent legislation related to hydraulic fracturing.

<http://www.lao.ca.gov/reports/2014/budget/resources/resources-environmental-protection-022114.aspx>

The Legislative Analyst's Office releases its report, "The 2014-15 Budget: Cap-and-Trade Auction Revenue Expenditure Plan," analyzes \$850 million in cap-and-trade auction revenue appropriated to various state programs.

<http://www.lao.ca.gov/reports/2014/budget/cap-and-trade/auction-revenue-expenditure-022414.aspx>

THE LAW AND CIVIL ENGINEERING

Contract Tips

by Eugene Bass, Esq.

There are clauses in contracts, often referred to as “boiler plate,” that one sees regularly and that never seem to present issues. Those clauses, however, can be very dangerous if a situation arises where they can be applied. No clause is so insignificant that it can be ignored. Every part of a contract should be understood so that there can be a realistic assessment of the risk or benefit of keeping it in the contract. Even where the application of a contract clause may later be shown to be unfair, it is more likely that the clause will be strictly applied where the contract is between two business entities. It is very important, therefore, to understand the full ramifications of all parts of your contracts.

Provisions where documents outside the contract are “incorporated by reference” are not uncommon. Much of the time, a contracting party may not have the documents that are incorporated and may assume that they are unimportant. They are important and should be acquired or made available, especially, if they will be applied to the performance of the work.

The contract should provide for the possibility that the work may be suspended and later resumed. In those cases there will be extra expenses in closing down and resuming the work as well as the possibility of increased costs to complete the work after a suspension. If early termination of the contract is provided, there should be adequate provisions for payment of the costs to wrap up the project as

well as loss of the income that would have been realized if the work had continued to the end. Unexpected termination can have a significant negative financial impact that should be compensated.

A difficult issue arises when payment is delayed but the project must go on. Contract provisions that spell out the rights of the engineer under those circumstances can be very helpful and can serve as a basis to cease work without liability if fees are unpaid.

Notice provisions in contracts should be thoroughly understood and followed. It is particularly important that the field personnel be familiar with the notice provisions. There may be delays, differing conditions or changes where the contract requires that notice be given within specific times, to specific persons or in specific formats.. One should not assume that the contract requirements will be satisfied if “they knew about it” or if some owner’s representative was told. Notice provisions are very important in that they allow an owner to take steps to mitigate the impact of the noticed condition. And, adherence to the notice provisions are important because payment can be denied where they are not followed.

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.



IEC is seeking an experienced **Senior Project Manager** and **Project Engineer** for our Fremont, CA office to further develop our Bay Area engineering activities.

The ideal candidate(s) will be experienced with planning and design of public water, wastewater, and recycled water projects including pipelines, pump station, reservoirs, and similar facilities.

Ability to effectively communicate with clients, fellow staff, and other project stakeholders is essential.

Candidates must possess a current and valid registration as a Civil Engineer in California.

The **Senior Project Manager** position will entail business/project development, client interaction, schedule and budget management, and staff supervision, minimum 10 plus progressive years of experience required.

Project Engineer candidates should have minimum 5 years of relevant experience.

Competitive salary, benefits, and flexible work schedule. To apply, please send letter of interest and resume to hr@iecorporation.com.

The ASCE San Francisco Section office is located at
 575 Market Street, Suite 2125 • San Francisco CA 94105-2870
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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:

- \$40 for first 35 words
- \$20 for each additional 10 words
- All job ads will be posted on the web

Website Only Job Ads:

- \$85 for a maximum of 150 words.
- \$150 for a maximum of 250 words

Display Ads:

Rates		Ad Dimensions	
		Width	Depth
Full page:	\$600	7 3/4"	9 3/4"
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"

Business Card Size:

- \$40 - 3 1/2" x 2"
- Please provide electronically

Submit finished ads via Email to:
admin@asce-sf.org.

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

Official monthly publication of the San Francisco Section-ASCE

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. The Society and the Section are not responsible for any statement made or the opinions expressed in their publications.

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Vice President	Rebecca Lyn Dower
Secretary	Cody James Long
Treasurer	Matthew Love

REDWOOD EMPIRE BRANCH

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Secretary	Dyanna Becker
Treasurer	Matt Wargula

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Secretary	Shawna Gates
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