

Los Angeles Section

Monthly: Est. 1913

ORANGE / SAN_BERNARDINO/RIVERSIDE / SAN_LUIS_OBISPO / SANTA_BARBARA/VENTURA / DESERT / SOUTHERN SAN_JOAQUIN / METROPOLITAN LOS ANGELES

PRESIDENT'S MESSAGE

Greg Heiertz, P.E.
Los Angeles Section President

Best of All Possible Careers



We who have worked as civil engineers for more than a few years already know what *Money Magazine* and *US News and World Report* recently concluded: civil engineering is one of the best possible careers. Money magazine ranked the top 100 careers based on pay and growth potential as well as intangible factors such as stress level, job satisfaction, and a sense of making a contribution to society. Civil engineering was ranked sixth overall among the top 100 careers.

We all know that business and the economy have been slow for the last few years. Layoffs, pay cuts, and furloughs have become a fact of life for many of us. Prospects in the job market have been grim at best. Some of us, especially younger engineers, may have despaired that they made the wrong choice by pursuing a career in civil engineering. Let me assure you that that is not so. *Money Magazine* and my own experience back me up on this.

Civil engineers do some of the most important work in the world. We are responsible for planning, designing, building and managing the infrastructure that makes modern life possible. In the words of ASCE's Vision 2025, civil engineers are the "planners, designers, constructors, and operators of society's economic and social engine—the built environment; stewards of the natural environment and its resources; innovators and integrators of ideas and technology across the public, private, and academic sectors; managers of risk and uncertainty caused by natural events, accidents, and other threats; and leaders in discussions and decisions shaping public environmental and infrastructure policy." In short, civil engineers work to make the world a better place. No other work could be as important.

The prospects of growth in civil engineering have been dimmed by the general economic slowdown the last few years. This is an inevitable part of the economic cycle that I have witnessed several times during my career. Long periods of astounding opportunity and growth are often followed by relatively brief intervals of consolidation and recession. Overall, the outlook for the future is sanguine. The US Bureau of Labor Statistics forecasts that job growth for civil engineers will be 24 percent for the ten year period from 2008 to 2018. That's approximately 68,000 new jobs. The related professions of environmental engineering, project engineering, structural engineering, and transportation engineering are forecast to have similar growth prospects. Things may be slow at the moment, but there are huge projects worldwide that are already creating shortages of local engineers as well as opportunities for professionals from the US. The electorate and our elected representatives are finally beginning to comprehend that America's infrastructure is crumbling and desperately needs renovation and replacement. Natural population growth and continued immigration to the US will require the expansion of existing communities and the development of new ones. These factors will create incredible new opportunities for civil engineers. The job market may seem dark and cold today, but the sun will be coming out soon for civil engineers.

VOL_XLXI NO_4

In This Issue	page
PRESIDENT'S MESSAGE	1
EDITORIAL	2
LEGISLATURE UP AND RUNNING	2
REGION 9 GOVERNMENT RELATIONS.....	3
ANNOUNCEMENTS.....	4-8
EMPLOYMENT OPPORTUNITIES.....	9
PROFESSIONAL DIRECTORY.....	10-11



Civil Engineering

Civil engineering is one of the most fulfilling careers. I am not only saying that because of the statistics and surveys that Los Angeles Section President Greg Heiertz, P.E. has explained in his President's message this month; but also based on personal experience. I have been quite fortunate to work in organizations or participate in projects that not only create visual monuments to the work of my team, but also have significant benefits to the lives of others. Such is the power of this profession.

In addition to the technical aspects, effecting change can also be done through the political process. Our ASCE Government Relations Committee has been organizing fly-ins in both Sacramento and Washington, DC to ensure that our voices are heard in the halls of our state and national legislative houses. The challenge is to get more engineers to participate in this effort and in the legislative process. ASCE is doing everything it can to ensure that opportunities are available to anyone who wishes to be more actively involved. Are you up for it?

Each one of us is the lifeblood of our profession and our organization ASCE. We make use of the opportunities that our organization provides for the betterment of everyone.

Enjoy this issue of your newsletter!

- Dr. Cris B. Liban, P.E.

Legislature Up and Running

By Richard Markuson

The California State Legislature has returned to work in earnest and have taken early steps to address the State's budget "imbalance." Perhaps cognizant of the new requirements of Prop 25, or simply in response to Governor Jerry Brown's entreaty to pass a budget package by the middle of March, the Legislature, at the time of the writing of this article, have completed their preliminary work and will be voting soon on a budget package to submit to Brown. For the first time in recent history – the Legislature will be able to pass the budget with only a majority vote. Proposition 25 – passed last November makes this change and provides that if the Legislature fails to pass a budget bill by June 15, all members of the Legislature will permanently forfeit any reimbursement for salary and expenses for every day until the day the Legislature passes a budget bill. What didn't change is the super majority vote required to pass NEW taxes. In an interesting plot twist, however, the Governor has proposed extending some income, sales and use taxes that are scheduled to expire in July. In a letter to the Senate Minority Leader, the Legislative Counsel has opined that the Legislature COULD place a tax extension on the ballot with a simple majority. Both Governor Brown and Assembly Speaker Perez have said they want Republicans "on board" with the tax extension – something the Republicans are resisting.

Tax Swap Pending

A comprehensive strategy is being considered by the Legislature to preserve transportation funding in the wake of Proposition 26. The strategy combines legislation to reaffirm the new taxes enacted under the swap with a proposal to shift vehicle weight fees to the General Fund to help pay for transportation bond debt service.

This proposal would help address the General Fund's \$25 billion deficit, while also providing local and state transportation programs with a predictable level of funding similar to that which was assumed at the time of the gas tax swap. Additionally, because of Proposition 22, funding for State Transit Assistance, the STIP and local streets and roads is now more secure and predictable than ever. Given the severity of the budget deficit there is an expectation that transportation funding will, in some form, be used to pay for debt service on general obligation bonds for transportation.

At issue is a provision in Proposition 26 that throws into jeopardy the taxes that were raised as part of the gasoline tax swap that was enacted by the Legislature in 2010 by less than a two-thirds vote. The swap eliminated the sales tax on gasoline and replaced it with an equivalent, and annually adjusted augmentation of the gasoline excise tax. It also reduced the diesel excise tax in exchange for raising the sales tax rate on diesel fuel by 1.75 percent in order to provide additional public transportation funding. Under a provision of Proposition 26 that is retroactive to January 1, 2010, any state tax increase enacted by a majority vote is repealed on November 2, 2011 if not reaffirmed by a two-thirds vote. Therefore, in order to retain the tax provisions of the gasoline tax swap, the Legislature would need to act by a two-thirds vote before November 2, 2011.

There is significant uncertainty regarding how Proposition 26 affects the gas tax swap that may ultimately only be clarified by a court decision. However, the worst case scenario is that the elements of the swap that lowered the sales tax would remain in effect, while the new excise tax and higher diesel sales tax would be repealed, leaving transportation accounts short by over \$2.5 billion.

continued on page 4

ASCE's 2011

Member-Get-A-Member Drive Depends on You!

A Great Idea From the Life Members

The ASCE Life Members' Public Image Committee request that members take their (to be discarded) Civil Engineering magazines to their doctor's office or barber shop and merge them with the stack of magazines. We feel that this will be an effective way to make the general public more aware of what civil engineers do.

Reminder:

Copy deadline for the May 2011 issue is April 1, 2011; copy deadline for June 2011 issue is May 1, 2011.

Region 9 Government Relations Committee (GRC) Annual Legislative Day: “Infrastructure is the foundation to economic recovery!”

by Chair of Region 9 GRC, Dolores Ventura, P.E., P.M.P, M.ASCE



Last March 8, 2011 marks the Seventh Annual Legislative Day in Sacramento! California's Legislative Day is an all day event in which we raise awareness about ASCE's priorities and advocate for infrastructure funding. Many ASCE members have developed relationships with their legislators as a result of these efforts and we continue to raise the issue of California's crumbling infrastructure. This year, the Water and Environment Policy Committee have scheduled an additional visit to the capitol to meet with committee chairs to help shape public policy and plan for the future. This is a very exciting time to get involved because we are experiencing positive results from our initial efforts!

ASCE has been issuing infrastructure report cards for over a decade now. In 2009, America's Infrastructure overall GPA was an unfortunate D and ASCE estimated that an annual investment of \$2.2 trillion was needed in the next five years to bring our Nation's infrastructure back to safe and reliable standards. Civil engineers realize that critical infrastructure systems are vital assets and that their destruction or incapacitation would disrupt the security, economy, safety, health, or welfare of the public. We have chosen to take action against our crumbling infrastructure.

One of the outcomes of ASCE's Vision 2025 was that Civil Engineers would be “Leaders in Public Policy”. ASCE has excellent programs in place to train, develop, and connect you with your government representatives. The GRC members take trips to Sacramento, Washington D.C., City Council offices, and we collaborate on a monthly basis as a Region to get involved with politics.

One of our goals this year was to bring advocacy training to the local level. The vehicle in place to accomplish this has been the Metro Los Angeles Branch's traveling workshop, “Engineers and Politics.” This all day seminar provides tools and techniques on how to become advocates for infrastructure in local, state, and federal government.



Infrastructure is the foundation to economic recovery!

- For every \$1 spent on infrastructure creates \$4 for California's economy.
- According to California Rebuild Coalition, “For every \$1 spent today saves as much as five times that amount in just a few years.”
- According to the U.S. EPA, “The cost of protecting water quality from degradation is one tenth (1/10) to one hundredth (1/100) the cost of cleanup.”

2009 ASCE National Report Card:

- 30% of California's bridges are structurally deficient or functionally obsolete
- 69 of California's 1,247 dams are in need of rehabilitation to meet applicable state dam safety standards.
- California ranked 11th in the quantity of hazardous waste produced and 1st in the total number of hazardous waste producers.
- 66% of California's major roads are in poor or mediocre condition.
- 68% of California's urban interstates are considered congested.
- Vehicle travel on California's highways increased by 27% from 1990 to 2007.
- Driving on roads in need of repair costs each California motorist \$590 a year in extra vehicle repairs and operating costs.

Legislative Day Agenda

8:30 AM – 10:00 AM	Continental Breakfast/Training
10:00 AM – 12:00 PM	Meetings with Legislators
12:00 PM – 12:45 PM	Lunch Break
12:45 PM – 1:00 PM	Group Picture on Steps of the Capitol
1:00 PM – 4:00 PM	Resume Meetings with Legislators
5:00 PM – 6:00 PM	Happy hour/recap session at the Hyatt

Hope to see you in Sacramento next year!



“Mechanically Stabilized Earth Walls & Reinforced Soil Slopes: LRFD and ASD Design Approaches”

This course presents the latest national recommendations for design and construction practice for reinforced soil structures. It includes the latest on reinforced wall and slope design based on LRFD and ASD plus hands-on use of two powerful software packages, MSEW and ReSSA, licensed to the FHWA as well as State DOT's.

Date: June 1-3, 2011
Instructors: Professor Dov Leshchinsky and Dr. Jim Collin
Location: Los Angeles, California
Details: <http://www.geoprograms.com/shortcourses.htm>

EWRI 2011 Congress Call for Abstracts

The organizing committee of the World Environmental & Water Resources Congress 2011 welcomes abstract submissions for this year's event, being held May 22-26, 2011, in Palm Springs, California.

A variety of tracks and sessions will be hosted at the 2011 Congress. The Environmental and Water Resources Institute anticipates strong participation and a diverse sampling of technical content in the conference program.

Visit the Congress website for a list of sub-topics to supplement the above-listed subject matter. The website also provides additional information on housing, international attendees, tours, and opportunities to sponsor or exhibit in Palm Springs.

For questions, or more information about the 2011 World Environmental & Water Resources Congress, visit the website, contact the Congress Technical Chair at ewri2011tc@asce.org, or send inquiries to ewri@asce.org.

If you would like to exhibit or cosponsor the conference please contact Sean Scully at 703-295-6154 or sscully@asce.org or Kira Simonson at 703-295-6349 or ssimonson@asce.org.

29th Annual UCB/SFGI Distinguished Lecture Series

May 6th 2011 – Registration link: http://peer.berkeley.edu/geoen지니어ing_lecture/Event is held on the UC Berkeley Campus, CA, at Sibley Auditorium in the Bechtel Building with an optional dinner held at the Hearst Memorial Mining Building. Registration is required.

The societal importance of civil engineering and its prospects for future growth are only two of the reasons it was selected as one of the best careers by Money. Many of us happily continue in our chosen field because of the variety and content of the work. Civil engineers work in an incredible variety of jobs. There are dozens of specialties and sub-specialties within the profession. Civil engineers work on buildings, roads, bridges, pipelines, water-systems, railroads, industrial facilities, dams, tunnels, and airports. They may be responsible for planning, designing, building, operating and maintaining all of these facilities. Civil engineers may work for federal, state or local governments, or they may work for private sector. They may be technical experts, master constructors, portfolio managers, sales professionals or upper managers, and everything in between. There is no limit to the variety in the field.

Money Magazine found that civil engineering is a relatively low stress field. Civil engineers ranked ninth among the top 100 professions for the absence of stress with about 53% of civil engineers claiming that their jobs were low stress. I suppose it depends on the job, and the day. Engineers in management experience stress due to budgets and financial performance. Facility failures and other catastrophic events can raise the blood pressure of any responsible civil engineer. Pressure to complete projects and proposals on tight schedules can also lead to stress. This is enhanced when projects are behind schedule or over budget. The overall lack of stress in the field however can be attributed to the autonomy, creativity, and flexibility offered by most civil engineering jobs.

These factors coupled with good pay, opportunities for advancement, good working conditions, and the opportunity associate with creative and dedicated colleagues through groups like ASCE make civil engineering the greatest of all possible professions.

Legislature Up and Running

Continued from page 2

Further muddying the waters, Proposition 22 repealed provisions of the gas tax swap that provided for transportation bond debt service to be funded by the new excise tax. This provision results in an immediate \$1 billion impact to the state's General Fund and is therefore of urgent concern to the Brown Administration and the Legislature.

There are various interpretations about what Proposition 26 means for transportation funding and what would occur if the Legislature does not reenact the tax portions of the swap by a two-thirds vote. The differences of opinion will undoubtedly give pause to the California Transportation Commission as it releases its draft fund estimate for the State Transportation Improvement Program (STIP) in March. The Legislative Analyst's Office has stated that it believes the retroactive provision in Proposition 26 is "self-executing" and would automatically repeal the entire gas tax swap by November 2011.

E Week Resolution Approved

Senate Resolution 6 – recognizing Engineer's Week was approved by members of the Senate in a floor ceremony attended by Region 9 Governor FareedPittawala. "As a civil engineer, I've had the opportunity to witness firsthand some of the incredible contributions engineers have made to the California economy, and I have no doubt that engineers will help lead the major advances of the 21st century," said Senator Anthony Cannella. "That's why it's so critically important that we begin educating the next generation of engineers now. That's also the reason I'm pleased to have earned my colleagues' support for this resolution acknowledging the important role engineers will play in our state and our nation's future and promoting the study of engineering among the next generation of leaders." You can watch the video of the presentation here <http://www.youtube.com/watch?v=Tq2G6HNwHHk>

continued on page 10

DISASTER TRAINING

Classes are being organized for volunteers to help in the event of a major disaster under the auspicious of the State of California Emergency Management Agency (Cal EMA). Classes will be held in ASCE Branch areas when there are sufficient requests. Qualified individuals are California Registered Civil, Structural, Geotechnical, Certified engineering Geologists, or Architects. If you are interested in attending a class, or are interested in arranging a class, please contact the ASCE Disaster Preparedness Committee Chairman.

There is no charge for the class.

The class lasts 4 or 5 hours

The Class can commence as early as 8 AM or after work.

Monday through Friday or on Saturday

Classes will be given for VOLUNTEERS from professional organizations to assess damage, and COORDINATORS from City or County to direct Volunteers for their area. Coordinators may act as Volunteers outside of their area of expertise.

To register for the class submit your name along with your telephone number and e-mail address. You will be contacted when 10 or more request a class. The maximum number in the class should not exceed 20.

If your Branch, or Firm would like to offer the use of its facilities for a class, please register and provide the name of contact person, phone, and E-mail. You will be contacted to make arrangements.

Thank you for your support.

Jack W. Rolston, Chair

818-903-5225 cell • 818-345-9199 ph • 818-345-5283 fx • ascedisaster@earthlink.net

www.structuralsolutions.com

2011 STRUCTURAL ENGINEERING REVIEW SEMINARS & MANUAL

Following a decade of successful presentations BYA Publications is pleased to announce the 11th consecutive year of the most comprehensive and value added series of structural engineering seminars in California. The expanded 12 session program (78 hours) is comprised of detailed and interactive presentations of a selection of problems and topics targeted for the new NCEES 16 hour Structural Engineer exam and the CA specific exam. Also included are discussions of the most recent developments in structural and seismic engineering. **These seminars also provide the best in-depth review of the latest code provisions even for those not considering taking the S.E. exam.**

“Register early and save up to \$400”

All classes are on Saturdays or Sundays from 8:30 a.m. to 4:00 p.m.

At the La Quinta, 3 Centerpointe Drive, La Palma, CA 90623, Phone: (714) 670-1400

May 14	Wind & Seismic Provisions	Ben Yousefi, MS, SE
May 22	Advanced Analysis/Dynamics	Dr. Farzad Naeim, Ph.D., SE, Esq.
June 11	Concrete Design, Part I	Dr. Cheng Ming Lin, Ph.D., S.E
June 19	Steel Design, Part I	Dr. Michael Engelhardt, Ph.D., PE
July 10	Wood Design	Kelly Cobeen, MS, SE
July 16	Steel Design, Part II	Dr. Michael Engelhardt, Ph.D., PE
July 30	Concrete Design Part II	Chris Tokas, MS, SE
July 31	California (CBC) Amendments	Chris Tokas, MS, SE
August 6	Masonry Design	Dr. Chukwume Ekwueme, Ph.D., SE
August 28	Steel Design, Part III	Dr. Michael Engelhardt, Ph.D., PE
September 17	Concrete Design, Part III	Dr. Cheng Ming Lin, Ph.D., S.E
October 1	General Overview/ All topics	Ben Yousefi, MS, SE

For complete registration information please check our web site
www.strcuturalsolutions.com

COMPLETE STREETS CONFERENCE

Helping Communities Design, Build, and Operate Streets to Serve All Users



What are complete streets, and complete streets policies?

Complete streets are designed and operated to enable safe access for all users. Pedestrians, bicyclists, motorists, and transit riders of all ages and abilities must be able to safely move along and across a complete street. Creating complete streets means transportation agencies must change their orientation toward building primarily for cars. Instituting a complete streets policy ensures that transportation agencies routinely design and operate the entire right of way to enable safe access for all users.

Don't miss out on this opportunity to learn more about complete streets from transportation planners, engineers, and MPO officials ! Topics will include:

Wednesday, April 20, 2011
 8 a.m. to 3:30 p.m.
 Carson Community Center
 801 East Carson Street, Carson, CA

- ⇒ Elements of complete streets
- ⇒ Examples of local roadway features
- ⇒ Local experience with upgrading roadways to include these elements
- ⇒ Complete streets from a regional perspective
- ⇒ General Plan Amendment for CEQA Compliance

Who Should Attend?

- *Traffic engineers, transportation planners*
- *Stakeholders and advocates for walking, bicycles, transit, health, and the environment*
- *Elected officials, planning commissioners, and MPO Board and staff members*

Registration Fee: \$145 members / \$165 non-members (includes materials and lunch)
 This conference will be held concurrently with the 12th Annual Streets & Technology Conference.

**For more information on the conference, please contact:
 Sylvia Robles at 714-647-5674 or e-mail at srobles@santa-ana.org.**



**ASCE METROPOLITAN LOS ANGELES BRANCH
GEO-INSTITUTE and SEI PROUDLY PRESENT:**

**DESIGN AND CONSTRUCTION
OF STEEL SHEET PILING
STRUCTURES SEMINAR**

Richard Hartman, Ph.D., P.E.
Hartman Engineering



The Design and Construction of Steel Sheet Piling Structures Seminar is a one day class covering topics ranging from design concepts, to practical field problems, through recent product advancements in the design and manufacturing of steel sheet piling.

The seminar will be presented by Richard Hartman, Ph.D., P.E., a leading international expert in the design and construction of steel sheet pile structures. Dr. Hartman is licensed as a professional engineer in 38 states and has over 40 years of experience in the subject. For the past 15 years he has been involved in the research and design of new sheet pile sections and, based on that research, holds four patents for sheet piling sections.

Seminar Content

- Design parameters, layout, and construction considerations for cellular cofferdams
- Design and construction considerations for bulkheads, open cell designs and combination walls
- Design and construction considerations for cofferdams and trenches.
- Properties of steel sheet piling, changes in steel pile manufacturing, concerns regarding performance, tranverse loads, stresses in sheet piling, and redesign of sheet piling sections
- Review of instability of the soil/rock in the bottom of an excavation for steel sheet piling structures
- Questions, answers and conclusions

Date: **July 13, 2011**

Time: 8:00 a.m. to 5:00 p.m.

Place: **CALTRANS**
[District 7](#) –Training Room #01.037
100 S. Main Street
Los Angeles, CA 90012
Tel: 562-449-7990

Contact: Richard Morales **678.714.6730 x103**
Email: RMorales@LBFosterCo.com

Mail Checks to : **ASCE MLAB** c/o Richard Morales
130 Satellite Blvd., N.E., Suite A
Suwanee, GA 30024

Includes: Course Reference Materials, Certificate for 7 Professional Development Hours (Seminar is IACET certified for 0.7 Continuing Education Units), Lunch and Two Breaks

Cost: \$200 before July 1, 2011
\$300 after July 1, 2011
\$ 50 for Student Members

RSVP: July 1, 2011 Early Bird Registration
July 8, 2011 Final Deadline to Receive Checks

Format: One Day Seminar, Business Casual Attire



12th Annual

2011 Streets & Technology Conference

Presented by: So. Ca. Chapter of American Public Works Association

Date: Wednesday, April 20, 2011

8:00 a.m. – 3:30 p.m.

Carson Community Center

801 East Carson Street

Carson, CA

**REGISTER
NOW!!**

Don't miss out on the latest developments in public infrastructure as it relates to design, operations, maintenance and funding. Our potential topics are as follows:

➤ Plans, Specs, and Estimates (PS&E)	➤ Training Supervisors
➤ Right-of-Way 101	➤ Work Zone Delineation
➤ Environmental Permitting CEQA/NEPA	➤ Claim Avoidance
➤ Pavement 101	➤ New MS4 Permit
➤ Drought Tolerant Landscaping	➤ Balancing CIP Budgets
➤ Contracting vs. In-House	
	<p><u>Fees</u></p> <p>APWA Member Price \$145.00</p> <p>Non-Member Price \$165.00</p> <p>(Cost includes notebook and lunch)</p>

Lunch Topic: Grants & New Initiatives

If you are interested in being an exhibitor,
please contact:
David Stuetzel at ((714) 665-4518 or email
at DStuetzel@hfinc.com.

For registration information on the conferences,
go to www.southernca.apwa.net or contact:
Sylvia Robles at (714) 647-5674 or email at
srobles@santa-ana.org.

NEW!!!

Complete Streets Conference will be held *concurrently* with Streets & Technology Conference.

Legislature Up and Running

Continued from page 4

More than 2,000 Pieces of Legislation Introduced in February

Shattering its January output of 248 bill introductions, the Assembly and the Senate produced nearly 10 times as many measures in February – 2,023 to be exact. The deadline to introduce bills was February 18 although committee bills rather than those introduced by an individual members could be logged later.

The 80-member Assembly introduced 1,183 new bills during the 28 days of February – an average of 42.25 per day. For the 40-member Senate, its 792 new pieces of legislation represent a rate of 28.28 per day. Rounding out its total, the Assembly also introduced four bills in the special session called to cope with the state's budget woes.

AB 550 by Alison Huber, a Lodi Democrat, would require a peripheral canal that diverts water from the Sacramento River and delivers somewhere south of the Sacramento-San Joaquin Delta to be approved by the Legislature. The Legislative Analyst would be required to examine the feasibility of the project prior to passing a bill creating the canal. And, finally, if passed the bill would prohibit the "construction and operation of a peripheral canal from diminishing or negatively affecting the water supplies, water rights, or quality of water for water users within the Sacramento-San Joaquin Delta watershed or imposing any new burdens on infrastructure within, or financial burdens on persons residing in, the Delta or the Delta watershed." According to the Legislative Analyst every bill introduced costs taxpayers at least \$30,000. Multiplying 2,023 by \$30,000 equals nearly \$60.7 million.

EMPLOYMENT OPPORTUNITIES

KPFF CONSULTING ENGINEERS

KPFF Consulting Engineers seeks motivated and energetic structural engineers. 2+ yrs of structural design experience with steel, concrete, masonry and timber desired. B.S., M.S. degree; a P.E. license a plus. Excellent communication and teamwork skills are essential. Substantial growth opportunity for all levels, and the opportunity to work on a wide variety of interesting and challenging projects. Please contact, fax or email resume to the following:

For Los Angeles:

Ms. Krystle Tabangcura
KPFF Consulting Engineers
6080 Center Drive, Ste 300
Los Angeles, CA 90045
Ph: 310- 665-1536
Fx: 310-665-9070
Email: ktabangcura@kpff-la.com

For Pasadena:

Ms. Tamara Kealty
KPFF Consulting Engineers
301 N. Lake Avenue, Ste 550
Pasadena, CA 91101
Ph: 626-578-1121
Fx: 626-578-9121
Email: tkealty@kpff-pas.com

www.kpff.com

Semi-Retired Civil Engineer

Semi-Retired Civil Engineer available for short term/long term commitments. **California P.E. with 40+ years of varied experiences and responsibilities, including claims consulting and expert witness testimony. C.V. and references will be available upon your request.**

E-mail: evnel@aol.com
Cell phone: 323-356-7814



HYDROLOGY/HYDRAULICS SOFTWARE

- Automatic English-to-Metric Conversion
- Used by Cal Trans, Government Agencies

WSPGW for Windows Water Surface Pressure Gradient, FEMA Approved	Unit Hydrograph Hydrology Method, Flood Hydrograph Routing, Basin Analysis Multi-Day Storm Event Analysis
Rational/Modified Rational Hydrology Methods For Los Angeles, Riverside, San Bernardino, San Diego, Orange & Kern Counties	Steady-State Hydraulics, Street Inlets, Pumps, Etc.



* FEMA Approval for WSPGW Only.





CIVIL DESIGN[®]
Software for Engineers. By Engineers

Tel 909.885.3806 Fax 909.381.1721 www.civildesign.com

AECOM

AECOM...Enhancing the world's built, natural and social environments.

www.aecom.com

DUDEK ENGINEERING + ENVIRONMENTAL

Creatively solving water and wastewater resources challenges for municipal agencies.

Plan | Design | Construct | Manage

WWW.DUDEK.COM San Diego | Los Angeles | Riverside
800.450.1818 Orange | Santa Barbara | Placer

gsi Geotechnical Stabilization, Inc.

Amer R. Al-Alusi, P.E.
President

Chemical Grouting Compaction Grouting
PressGrout Piles Lense Grouting

1558 Sterling Court • Escondido, CA 92029-1208
760/489-6696 • FAX 760/489-6697

KEHOE TESTING & ENGINEERING

- Cone Penetration Testing (CPT)
- Direct Push Soil, Water & Vapor Sampling
- Truck Mounted, Track & Ltd. Access Rigs

Soil Testing & Sampling Services
for Geotechnical & Environmental Consultants

5415 Industrial Drive
Huntington Beach, CA 92649-1518
(714) 901-7270 (714) 901-7289 fax

STEVE KEHOE, P.E.
PRESIDENT

AES Advanced Earth Sciences, Inc.
Geotechnical and Environmental Consultants

Kris Khilnani, PE, GE - President
Dr. Suji Somasundaram, PE, GE - Principal Engineer
Grant Miller, PG, CEG - Principal Geologist

(949) 379-2450
FAX: (949) 379-2470
Website: www.aessciences.com

9307 Research Drive
Irvine, CA 92618

Earth Mechanics, Inc.

Geotechnical and Earthquake Engineering

Foundation Design
Seismic Evaluation
Soil-Structure Interaction
Field Investigation and Laboratory Testing
Grading and Foundation Inspections

www.earthmech.com

Fountain Valley Los Angeles San Bernardino Oakland San Diego
(714) 751-3826 (310) 519-1197 (909) 890-1551 (510) 562-8833 (760) 736-8222

GREGG Phone: (562) 427-6899
Fax: (562) 427-3314

Email: info@greggdrilling.com
Web Site: www.greggdrilling.com

GREGG DRILLING & TESTING, INC.

- ENVIRONMENTAL AND GEOTECHNICAL DRILLING
- WELL INSTALLATION
- CONE PENETRATION TESTING

2726 WALNUT AVE. • SIGNAL HILL, CA 90755

KRIEGER & STEWART INCORPORATED

- WATER
- WASTEWATER
- RECYCLED WATER
- STORM WATER

ENGINEERING CONSULTANTS

Riverside, CA • (951) 684-6900
www.kriegerandstewart.com

AEI-CASC CONSULTING
ENGINEERING OUR FUTURE

CIVIL ENGINEERING
PLANNING
ENVIRONMENTAL ENGINEERING
SURVEYING

CORPORATE OFFICE
937 S. Via Loma, Suite 500
Colton, CA 92324
(909) 783-0101

Offices throughout California
www.aei-casc.com

EARTH SYSTEMS

Geotechnical Engineering
Engineering Geology
Environmental Consulting
Materials Testing & Inspections

Offices throughout California
Los Angeles Area Office (818) 901-8075
www.earthsystems.com

GROUP GEOTECHNICAL ENGINEERING
MATERIALS TESTING & INSPECTION

Serving Southern California since 1986

Michael Reader, G.E.
Principal Engineer
Tom Swanko, G.E.
Principal Engineer

Group Delta Consultants, Inc.
Los Angeles County: (310) 320-5100
Orange County: (949) 609-1020
San Diego County: (858) 524-1500
www.GroupDelta.com

Leighton Consulting, Inc.

866-LEIGHTON

Thomas C. Benson, Jr., PE, GE, REA | President and CEO
www.leightongroup.com

Geotechnical | Environmental | Testing and Inspection

AKEL ENGINEERING GROUP, INC.

Water Resources
Infrastructure Modeling
and Master Planning

Tony Akel, P.E.
Principal

Phone: 559.436.0600
Fax: 559.436.0622
Cell: 559.593.5937
Email: takel@akeleng.com

7433 N. First St. Suite 103
Fresno, California 93720
www.akeleng.com

FUSCOE ENGINEERING
full circle thinking

- land development
- entitlement services
- survey & mapping
- water quality assurance
- eco-adaptive design
- sustainable engineering
- GIS & 3D visualization

949.474.1960 • OC 213.542.4260 • LA
IRVINE • SAN DIEGO • ONTARIO • PALM SPRINGS • LOS ANGELES
www.fuscoe.com

Hall & Foreman, Inc.

Engineering • Surveying • Planning • Landscape Architecture

visit us online for job listings at
www.hfinc.com

800.544.2114

Offices throughout Southern California including Irvine, Rancho Cucamonga, Santa Clarita, Temecula, Victorville, and Woodland Hills

LGC Geotechnical Companies, Inc.

Website: www.lgcgeo.com

- LGC COASTAL (Orange County): (949) 369-6141
- LGC INLAND (Riverside County): (951) 461-1919
- LGC VALLEY (Ventura/LA Counties): (805) 579-3434

amec

- Environmental Science and Engineering
- Geotechnical Engineering
- Earthquake-Related Services
- Air Toxics and Health Risk Assessment

James J Weaver PE, GE
Tel (949) 642-0245
Fax (949) 642-4474
www.amec.com

510 Superior Avenue
Suite 200
Newport Beach, California
USA 92663-3627

GENTERRA CONSULTANTS, INC

Joseph J. Kulikowski, PE, GE
President and Senior Principal Engineer
15375 Barranca Parkway, Bldg L
Irvine, California 92618
Tel: 949.753.8766
Fax: 949.753.8887
joekul@genterra.com
www.genterra.com

CIVIL ENGINEERING • GEOTECHNICAL ENGINEERING • DAM ENGINEERING
WATER RESOURCES • ENVIRONMENTAL SERVICES
SERVICES PROVIDED NATIONWIDE

HDR ONE COMPANY | Many Solutions™

SERVICES:
Water/Wastewater • Transportation
Environmental • Construction Management

801 So. Grand Avenue, Suite 500, Los Angeles, CA 90017
213.239.5800 www.hdrinc.com

LIN Consulting, Inc.

Traffic, Civil and Electrical Consulting Engineers

William Sun, P.E., T.E.
Senior Project Manager

21660 E. Copley Drive, #270, Diamond Bar, CA 91765-4173
Tel (909) 396-6850 ext. 105 • Fax (909) 396-8150
E-mail: wsun@linconsulting.com

Cannon
ENGINEERING • PLANNING • CONSTRUCTION

Public Infrastructure; Land Development;
Education; Energy; Survey & Mapping;
Aerospace/Defense

310.664.1166
www.CannonCorp.us

Geomatrix

- Environmental Science and Engineering
- Geotechnical Engineering
- Earthquake-Related Services
- Air Toxics and Health Risk Assessment

James J. Weaver, P.E., G.E.

510 Superior Avenue, Suite 200 Newport Beach, CA 92663
(949) 642-0245 - office (949) 642-4474 - fax

HESS ENGINEERING INC
Structural Engineers

Richard L. Hess, S.E., SECB, FASCE
President

www.HessEng.com

3347 Corritos Avenue • Los Alamitos, CA 90720-2105
(562) 799-9787 • FAX (562) 799-4973 • Cell (310) 717-4916

LaBelle • Marvin
PAVEMENT ANALYSIS, DESIGN, TESTING & INSPECTION
SINCE 1969

Steven R. Marvin, P.E.
President

2700 S. Grand Ave.
Santa Ana, CA 92705
Ph (714) 546-3468
Fax (714) 546-5841
smarvin@labellemarvin.com
www.labellemarvin.com

Converse Consultants
Geotechnical Engineering
Environmental & Groundwater Science
Inspection & Testing Services

Monrovia Office (626) 930-1200 Costa Mesa Office (714) 444-9680
Fax (626) 930-1212 Fax (714) 444-9640

Redlands Office (909) 796-0544 Sacramento Office (916) 331-5444
Fax (909) 796-7675 Fax (916) 331-6444

www.converseconsultants.com

GeoPentech
Geotechnical & Geoscience Consultants

- Geotechnical Engineering
- Geo-Earthquake Engineering
- Seismic Hazards Evaluation
- Soil Dynamics/Vibrations
- Engineering Geology
- Hydrogeology
- Seismic Geology
- Forensic Studies

525 N Cabrillo Park Drive, Suite 280
Santa Ana, California 92701
Phone: (714) 796-9100; FAX: (714) 796-9191
Web Site: www.geopentech.com

JENSEN DESIGN & SURVEY, INC

“Designing for the Future”

The leader in civil engineering and surveying providing professional state-of-the-art services, commitment to excellence, and timely responsiveness.

1672 Donlon Street
Ventura, California 93003

Local 805 654 6977
FAX 805 654 6979
State 800 676 1916

www.jdscivil.com

Engineers Planners Surveyors

MACTEC
GEOTECHNICAL • ENVIRONMENTAL • HAZARDOUS MATERIALS • CMT

Perry A. Maljian, G.E.
Senior Vice President
pomaljian@mactec.com

Marshall Lew, Ph.D., G.E.
Senior Principal/Vice President
mlaw@mactec.com

Martin B. Hudson, Ph.D., G.E.
Chief Engineer
mbhudson@mactec.com

Hedy Abadi, Ph.D., P.E.
Director of Environmental Services
habadi@mactec.com

Edward C. Trasoras, P.E.
Principal Materials Engineer
etrasoras@mactec.com

5628 E. Slauson Avenue • Los Angeles, California 90040-2922
323.889.5300 • fax 323.721.6700 • www.mactec.com

DIAZ • YOURMAN & ASSOCIATES

Christopher M. Diaz, P.E.
Principal

Geotechnical Services

1616 East 7th Street Santa Ana CA 92705-8509
Tel. (714) 245-2820 • Fax (714) 245-2950 • Mobile (714) 412-2093
chris@diazyourman.com www.diazyourman.com

GPI
GEOTECHNICAL PROFESSIONALS, INC.

James E. Harris, G.E.
Byron Konstantinidis, G.E.
Paul R. Schade, G.E.

5736 Corporate Ave.
Cypress, California 90630
(714) 220-2211 • Fax (714) 220-2122
www.gpi-ca.com

OSBORN K&A FALLAHL
Engineering, Inc.

- Engineering
- Land Planning
- Surveying

357 N. Sheridan St. 117
Corona, CA 92880
Tel: (909) 279-1800
Fax: (909) 279-4380
Email: ka@kaengineering.com

Noise & Air Studies
All Your Noise and Air Assessment Needs Since 1981

Mestre Greve Associates

Contacts: Matt Jones, P.E.
Fred Greve, P.E.

27812 El Lazo Road
Laguna Niguel, CA 92677
Tel: (949) 349-0671
www.mgatl.com

Studies for EIRs and EISs
Caltrans/FHWA Assessments
Noise Ordinance Compliance
Air Toxics/Health Risk Assessments
Noise Elements



NMG
Geotechnical, inc.

Hayim Ninyo
Ted Miyake

17991 Fitch, Irvine, CA 92614
Phone (949) 442-2442 Fax (949) 476-8322
E-Mail: hninyo@nmggeotechnical.com
www.nmggeotechnical.com

PSOMAS

Land Development GIS
Surveying & Mapping Water & Wastewater
Construction Management Transportation
Natural Resources Special District Financing

California | Colorado | Arizona | Utah | Nevada | Mexico
www.psomas.com



DEDICATION TO SERVICE®
CIVIL ENGINEERING
CONSTRUCTION MANAGEMENT
LANDSCAPE ARCHITECTURE
MECHANICAL ENGINEERING
PLANNING
PUBLIC WORKS ADMINISTRATION
SURVEYING / GIS SOLUTIONS
WATER RESOURCES

WALLACE GROUP®
805 544-4011
www.wallacegroup.us



ASCE
American Society of Civil Engineers



NORRIS-REPKE
Engineers & Land Surveyors

Capital Improvement Design
City Engineering
Land Surveying & GIS Services
Construction Management
Water and Sewer
Building & Safety
Engineering Software

TEL: 714-973-2230
FAX: 714-973-2263
www.norrisrepke.com
400 N. Tustin Avenue, Suite 230, Santa Ana, CA 92705

RBF CONSULTING PLANNING • DESIGN • CONSTRUCTION

Providing innovative, timely and cost effective solutions to today's design challenges through personalized client service **www.RBF.com**

Offices located throughout California, Arizona and Nevada • 800-479-3808

MATERIALS SUBMISSION INFORMATION

If you'd like to have your business card or company information listed in the Professional Directory, please contact **Lorena Arce** at **(562) 448-4526** or email her at **lorena.arce@hilti.com** for rates and deadlines.



PACE
ADVANCED WATER ENGINEERING
...in partnership with nature

- Water / Wastewater
- Stormwater Management
- River / Wetland
- Manmade Lakes / Streams
- Fountain Engineering
- Fountains / Pools

WWW.PACEWATER.COM
HEADQUARTERS
17520 Newhope Street, Suite 200 | Fountain Valley, California 92708
main: 714.481.7300 fax: 714.481.7299
ADDITIONAL LOCATIONS:
PHOENIX, AZ • BEIJING, CHINA • CAIRO, EGYPT • MOSCOW, RUSSIA

P: (805) 543-1794 | www.rmdesign.com

rrm design group

creating environments people enjoy®

Community | Civic & Public Safety | Education | Recreation | Urban
architects | engineers | landscape architects | planners | surveyors

All graphic materials submitted for use in this newsletter should have all fonts outlined, and links included; .eps files preferred. Other formats are: InDesign CS2, Adobe Illustrator CS2; additional acceptable file formats are: .jpg, .tif and .pdf files. Images embedded in Microsoft Word documents should be sent separately, at a minimum resolution of 150 dpi at the display size desired. Collected files, including links and fonts, should be compressed and emailed, or sent on zip disk (provide return address). Business cards can be submitted electronically as well, or send clean, crisp, b&w laser print, unfolded.



PARSONS BRINCKERHOFF
Moving California Forward

Los Angeles (213) 362-9470
Orange (714) 973-4880
Inland Empire (909) 888-1106
Visit us on the web at pbworld.com

SA ASSOCIATES

Shahnawaz Ahmad
CONSULTING ENGINEERS

Los Angeles County: 1130 W. Huntington Drive, Unit 12, Arcadia, CA 91007, Tel 626.821.3456, Fax 626.445.1461, Mobile 626.826.3456, e-mail: saahmad@saassociates.net

Orange County: 1661 N. Raymond Avenue, Suite 100, Anaheim, CA 92801, Tel 714.871.9083, Fax 714.871.3652



Penfield & Smith
Engineering Tomorrow... Today

Santa Barbara Corporate HQ (805) 963-9532
Ventura County Regional Office (805) 981-0706
Central Coast Regional Office (805) 925-2345
Antelope Valley Regional Office (661) 945-7592

- Civil Engineering
- Surveying & Mapping
- Land Use Planning
- Construction Management & Inspection
- Traffic & Transportation Engineering
- Transportation Planning
- Structures Engineering
- Geographic Information Systems

www.penfieldsmith.com

Civil - Planning - Water Resources - Inspection
Surveying - Construction Management - Program Management
Architecture - Environmental - Landscape Architecture

TKE ENGINEERING & PLANNING

2305 Chicago Avenue - Riverside - CA - 92507
Ph. (951) 680-0440 - Fax (951) 680-0490
www.tkeengineering.com



PETRA
past + present + future

Geologists
Geotechnical Engineers
Environmental Scientists

888-243-6100

Debanik Chaudhuri
Chief Geotechnical Engineer

562.426.3355 phone
562.426.6424 fax
562.355.8635 cell
dchaudhuri@twininglabs.com
www.twininglabs.com

TWINING LABORATORIES
OF SOUTHERN CALIFORNIA

2883 East Spring Street
Suite 300
Long Beach, CA 90806

Long Beach • San Bernardino • San Diego • Ventura • Sacramento



PERLITER & INGALSBE
CONSULTING ENGINEERS

Engineering Investigations, Designs and Construction Services for:

- Potable Water
- Recycled Water
- Wastewater
- Storm Drainage

(626) 398-9111

2369 Lincoln Avenue, Altadena, California 91001
Facsimile: (626) 398-9115 Website: www.P-and-I.com

URS

Garry Lay, PE, GE
Farid Motamed, PE, GE

2020 East First Street Suite 400 Santa Ana, CA 92705
Tel: 714.835.6886 Fax: 714.973.4062

915 Wilshire Boulevard Suite 700 Los Angeles, CA 90017
Tel: 213.996.2200 Fax: 213.996.2374

www.urscorp.com



The PRESSURE GROUT COMPANY

Steven C. Chandler
Branch Manager

1975 National Avenue Hayward, CA 94545-1709
510-887-2244
www.pressuregrout.com • e-mail: pgo@pressuregrout.com

1330 W. Geyford Street Long Beach, CA 90813-1321
562-432-4100



VA CONSULTING

Max Vahid, P.E.
President and CEO
maxvahid@vaconsultinginc.com
Tel: 949.474.1400 | Fax: 949.261.8482

Engineering Services in:
Flood Control | Drainage | Water Quality
Potable Water | Recycled Water | Wastewater
Transportation | Traffic | Plan Checking
Structural | Land Use | Planning | Site Development
Surveying | Construction Management

Offices in: Irvine - Corona - Palm Desert



HYDROLOGY/HYDRAULICS/ENVIRONMENTAL SOFTWARE

ADVANCED ENGINEERING SOFTWARE

P.O. Box 4962
GARDEN GROVE, CA 92842-4962
TEL/FAX: (714) 780-8990

TO REVIEW AES PROGRAM FEATURES AND CAPABILITIES, VISIT:
<http://www.advancedengineeringsoftware.com>

- Software written/supported by *AUTHORS OF THE HYDROLOGY MANUALS*.
- Software used throughout Southern California since 1980 by private and government agency engineers.
- Used to develop 55 City-Wide and County-Wide Master Plans of Drainage throughout California.

AES Program Developers & Support:
Theodore V. Hromadka II, Ph.D., Ph.D., Ph.D., P.E., P.H., LG, *Professor Emeritus, CSUF*; Johannes J. DeVries, Ph.D., P.E., *Faculty, UC Davis*; Howard H. Chang, Ph.D., P.E., *Professor, SDSU*; Paolo Zanetti, Ph.D., QEP, *President, EnviroCOMP*; Robert J. Whitley, Ph.D., *Professor Emeritus, UC Irvine*; Carlos Brebbia, Ph.D., *Director, Wessex Institute of Technology*; Gary Guymon, Ph.D., P.E., *Professor Emeritus, UC Irvine*.

Los Angeles Section
 Monthly: Est. 1913
 1405 WARNER AVE.
 SUITE B
 TUSTIN, CA 92780

**NON-PROFIT
 U.S. POSTAGE
 PAID
 PERMIT NO. 1441
 SANTA ANA, CA**

**POSTMASTER: THIS CONTAINS TIME-SENSITIVE MATERIALS.
 PLEASE DELIVER PROMPTLY.**



**Please contact ASCE Membership at
 1-800-548-ASCE for any address changes.**

ASCE OFFICERS AND DIRECTORS OF THE LOS ANGELES SECTION, FY 2010-2011

President	Greg Heiertz, P.E.	Irvine Ranch Water District	949-453-5560	heiertz@irwd.com
President-Elect	John Hogan, P.E.	Hall & Foreman, Inc.	714-665-4507	jhogan@hfinc.com
Past President	Jay H Higgins, P.E.	URS Corporation	818-406-4896	jay_higgins@urscorp.com
Secretary	Janice Horcasitas, P.E.	City of Bakersfield	661-326-3607	jhorcasi@bakersfieldcity.us
Treasurer	Gary Gilbert, P.E.	Diaz Yourman & Associates	714-245-2920	gary@diazyourman.com
Vice-President Student Activities	Karen Sepulveda	Bob Hope Airport	818-309-9649	kar@sepulvedas.net
Vice-President Technical Groups	Bill Flores, P.E.	HDR Engineering, Inc.	951-320-7311	bill.flores@hdrinc.com
Desert Area	Clarence Martin, P.E.	City of L.A. Department of Water and Power	760-873-0342	Clarence.Martin@ladwp.com
Metropolitan Los Angeles	Andy Duong, P.E.	HDR Engineering, Inc.	714-730-2300	andyg.duong@hdrinc.com
Orange County Branch	Ziad Y Mazboudi, P.E.	City of San Juan Capistrano	949-234-4413	zmazboudi@sanjuancapistrano.org
San Bernardino/Riverside Counties	Lauren Popescu, P.E.	City Of Fontana	909-350-7663	lpopescu@fontana.org
San Luis Obispo	Rob Down, P.E.	Earth Systems Pacific	805-544-3276	rdown@earthsys.com
Santa Barbara/Ventura Counties	Carlos Sanchez, P.E.	Mimiaga Engineering Group	805-451-4090	Sanchx01@earthlink.net
Southern San Joaquin	Rick Iger, P.E.	GEI Consultants	661-327-7601	riger@geiconsultants.com
Younger Member Forum	Heren Molina	PPC Construction Inc.	323-256-2600	heren.molina@ppcco.net
Life Member Forum	Larry Lewis, P.E.	Retired/City of Los Angeles	562-927-2088	m13lewis@aol.com
Region 9 Governor	Shahnawaz Ahmad, P.E.	SA Associates	626-821-3456	sahmad@saassociates.net

NEWSLETTER INFORMATION

Publisher

ASCE LA Section
 Gayle Stewart
 1405 Warner Ave., Suite B
 Tustin, CA 92780
 Phone (714) 258-8306
 Fax (714) 258-8391
 E-mail: GStewart@associationplanet.com

Editor

Dr. Cris B. Liban, P.E.
 LACMTA
 One Gateway Plaza
 Mail Stop 99-17-2
 Los Angeles, CA 90012
 Phone (213) 922-2471
 FAX (213) 922-6875
 E-mail: cliban@UCLAlumni.net
 Typesetting, Layout & Printing: The Center Quickprint



Please send all copy to the Editor by the first of the month preceding publication.

Identification Statement

ASCE Newsletter, (ISSN 0273-6233) is published monthly by ASCE, Los Angeles Section, 1405 Warner Ave. Tustin, California 92780. Subscription price included in Section dues of \$45.

Circulation

Circulated monthly (except for a joint July/August issue) to the 5,000 subscribing members of the Los Angeles Section, ASCE.

Advertising Rates

EMPLOYMENT ADS	DISPLAY ADS
\$75/column inch	1/8 page \$150
	1/4 page \$250
	1/2 page \$415
	1 page \$690

PROFESSIONAL DIRECTORY

\$350 per business card for a full year (Additional fees may be applied for typesetting. Please call for information.)

POSITION WANTED ADS

No cost to L.A. Section members.

For more advertising and billing information, please contact Lorena Arce, P.E., at (562) 448-4526 or lorena.arce@hilti.com

National ASCE (800) 548-2723 (ASCE)
 Access National ASCE at: www.asce.org
 L.A. Section web site at: www.ascelasection.org