

# 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

John C. Hogan, P.E.  
Los Angeles Section President



### February—a Great Month to Be an Engineer!

What's the first thing that comes to mind when you think "February"? If you're an engineer, then I'm sure your answer is "Engineers' Week"! This year, Engineers' Week is February 19–25. Engineers' Week is a great opportunity to reach out to the public and showcase how civil engineers are making a difference in the world around them every day. I hope your office is planning activities to commemorate the occasion, to have some fun and to celebrate the great work that we all do. This is a good time

to issue a press release to have the media inform the public about something you are doing – a new project, award, or other achievement.

ASCE will be conducting a very special series of events in California in late February, before the dust has settled on Engineers' Week 2012 celebrations. These events will take place on February 28 and 29 in Sacramento. The annual Infrastructure Symposium is set for the 28th, followed that evening by the ASCE Region 9 Awards Dinner. The next morning, on the steps of the state Capitol, ASCE will unveil the 2012 Report Card on California's Infrastructure. That same day, ASCE members from all over California will be paying visits to state legislators to promote infrastructure causes.

Report card unveilings are always newsworthy. We anticipate that this year's event will be particularly so due to the increasing attention and awareness by the public of the importance of a strong infrastructure. Appeals are going out to have as many ASCE members, their colleagues, friends and families to be at the state Capitol for the unveiling. As stewards of infrastructure, Civil Engineers need to be there. The larger the turnout, the more publicity will be generated and the more influence we will exert. We expect strong media coverage and a large contingent of elected officials and their staff members.

I know it is inconvenient to be in Sacramento for these events. However, if you believe in the causes that ASCE is promoting and are interested in doing something to advance them, then please consider taking off for a day and a half. Come to Sacramento on the 28th for the Symposium and Awards and then stick around until the next morning and show up for the Report Card unveiling. You can fly home and be back in the office that afternoon. Many of us do not think twice about taking a few days off to go skiing in February. With poor snowpack this year, use that time instead to come to Sacramento and be part of an effort that benefits our quality of life, our economic fortunes, and our professional opportunities. See you in Sacramento!

A few days following the big events in Sacramento, another inspirational ASCE event will be held—this time in Monterey Park. On Saturday, March 3, 2012, the Los Angeles Section will be holding its annual Life Member Brunch. This is when the Section and its members will honor our newest Life Members. The Section is proud to have 68 of its members reaching this milestone in 2012.

When I say this event is inspirational, I am not using the word lightly. I have been a regular attendee and every year I am amazed and inspired by the careers and accomplishments of the new Life Members. When hearing about the body of work that each of these engineers

*continued on page 3*

VOL. XLXII NO. 2

In This Issue	page
PRESIDENT'S MESSAGE .....	1
THE 'CIVIL ENGINEERING REVIVAL' .....	2
LOS ANGELES SECTION CENTENNIAL .....	2
ANNOUNCEMENTS.....	4-5
PS 465 (AKA RTB) AND B+M/30 & E (AKA BOK) = \$\$\$+R .....	6-7
PROFESSIONAL DIRECTORY .....	8-9



## The 'Civil Engineering Revival'

By Fareed S. Pittalwala, P.E.  
Governor, ASCE Region 9



What is the greatest challenge facing civil engineers as we embark on 2012? Some say it's reviving the economy, addressing our ever-degrading infrastructure, ensuring adequate and pertinent education of new engineers, or continuing to engage our legislators to ensure financial commitments to infrastructure. All of these are valid and interrelated, and I can't imagine ranking them in order of priority.

The focus of this year's Engineers' Week (February 19th–25th) is based on the projected world population of 7,000,000,000. It's fairly obvious that this increase brings many challenges facing our world that require immediate and sustainable engineering solutions. Civil engineers are needed in the United States today as much or more so than they were during the nation's most prosperous years of growth, but the world in which we will operate is vastly different. As Engineers' Week 2012 starts this year, it's important to remember, but more importantly to embrace all of these challenges with a renewed focus on education. Education of the public, and education of the new generation of younger engineers joining us as colleagues and taking our profession into the future.

We know the education we gave our past graduates, even those of the recent past, will not fit our times. Today's civil engineers increasingly need other skills as they negotiate with the public, incorporate social skills in their work, and address questions of cost and sustainability. So what should constitute the education of a civil engineer in the years to come? ASCE has produced a document, the "Vision for Civil Engineering in 2025" that includes some guidance on the topic.

Engineers must still be grounded in math, science, and discipline knowledge, but they need to have a broader understanding of the humanities, social sciences, and economics, as well as the ability to lead, the last of which may be the most important. Additionally, today's civil engineers must take advantage of outside opportunities: volunteerism, international study, and any other relative education beyond the core civil engineering core curriculum, whether in undergraduate education, post-graduate education, or continuing education once licensed.

As we look at the challenges we face and the continuing growth of our population coupled with the continuing degradation of our backbone infrastructure, our society is turning once again to civil engineers. We are the only ones who can solve our transportation problems and upgrade our roads, bridges, and tunnels, and manage our precious water resources. This is truly the time for the "civil engineering revival." I encourage you to work with ASCE Region 9 on their efforts to usher in this revival through its many programs and strategic efforts, including education of the future generations of civil engineers.

*Editor Cris B. Liban's column is dark this month to give way to an important guest article on page 6.*

## ASCE's L.A. Section Centennial

By Don Sepulveda, P.E.  
Centennial Celebration Chair

It is hard to believe that the Los Angeles Section will be 100 years old in 2013. This is a monumental event. It would be interesting to be able to look into the minds of the founding engineers that sat together in a room and visualized the formation of this group of engineering professionals and what would be the future for the Section. Do you think that they had thought that this Section would be the second largest in the Society? What were the challenges facing these engineers as they organized the Section and formed into an organization that would end up being so important for the citizens of southern California and ASCE as a whole?



It is important to think about some of the challenges facing the founders of the Section in 1913. William Mulholland, a past president of the Section, was working to provide water to southern California. The development of the Model T required additional roadways. The transformation of southern California from a major agricultural region to include manufacturing and business was in progress. These challenges of connect communities, supplying them with clean water, providing sufficient utilities, and providing transportation were significant challenges back then, as they are now.

One hundred years later we see a region that is the product of their hard work. More than half the population of the state lives and works in southern California. This would not have been possible without the accomplishments of these and hundreds of other engineers since. We have many of the same challenges, but new challenges exist regarding sustainability and aging infrastructure. We continue to be a developing and changing society.

Our Section is planning a year-long celebration of our accomplishments. Probably more important is our celebration of how we are going to meet the challenges of the future. This will be accomplished through understanding the role that we as engineers play in the development of the communities in which we live and work. This is an important opportunity to celebrate our accomplishments while we reach out to our political leaders and others within the community to highlight the importance of what we do.

Our Centennial celebration will include many events designed to reach out to demonstrate the importance of our infrastructure while celebrating our past. Through events such as E-Week activities, a statewide water and transportation symposium, video outreach, student events, and K–12 events we will be reaching out to leaders in our communities as well as other engineers.

A committee has been formed to plan the celebration events throughout the year. This committee, made up of past presidents and others

*continued on page 3*

has accomplished during a career that typically stretches for four decades or more, a younger engineer cannot help but be encouraged. For me, it is another validation of my belief in the nobility of our profession. Please come check it out – even if you do not know any of the honorees. I can promise you that you will be warmly welcomed and will walk out afterwards immensely proud to be a Civil Engineer.

On the subject of Life Members, I was saddened to learn of the recent passings of two LA Section Life Members, John A. Martin, S.E. and Loren Anderson, P.E. Mr. Martin, founder of his namesake firm, was responsible for the structural engineering of many Los Angeles landmarks. He became an ASCE Life Member in 1984. Mr. Anderson, who became a Life Member just last year, was well known and highly respected in Orange County as City Engineer for Irvine and Mission Viejo, where he later became Director of Public Works. Both gentlemen left proud legacies and our world is better place because of them.

ASCE Life membership connotes career longevity. Speaking of longevity, as you aware that the Los Angeles Section is about to turn 100 years old? That's right – 2013 is the year of the Los Angeles Section's Centennial. We plan to celebrate the 100th anniversary of our founding throughout the year. Actually, the celebration will officially kick off in October 2012, at the Annual Meeting of the Section, when we conduct our Awards program and install our new officers, including Mike Thornton, P.E., who will become Section President during the Centennial year.

The Section's Centennial Committee is hard at work planning various events, programs and publicity to commemorate this milestone. One of the highlights will be the 2013 Infrastructure Symposium, which is scheduled for March 6, 2013 (mark your calendar) at the Union Station/

MWD/Metro complex in downtown Los Angeles.

To get the word out and to build momentum for the Centennial, starting this month, the Los Angeles Section newsletter will feature a Centennial Page. This will offer news about centennial planning as well as glimpses back at memorable projects and engineers who helped to shape the region that we live in. All Branches, YMF's, the Life Member Forum, Technical Groups and Institute Chapters, and Student Chapters are encouraged to weave the Centennial theme into their programs and activities during 2013.

Anyone interested in participating in the planning and roll-out for the Centennial, please shoot me an email (jhogan@hfinc.com) or email our committee chair, Don Sepulveda, P.E., at sepulvedad@metro.net. The more members involved, the greater the impact we will have with our celebration.

Final topic for the month: one of ASCE's three strategic initiatives is 'Raise the Bar'. (The other two are Infrastructure and Sustainability). These initiatives set the focus of the organization. Of the three, the one that has created the most debate is Raise the Bar. It refers to ASCE's position that the educational pre-requisites for professional engineering licensure should be increased to include significant post-baccalaureate degree study. Recently, Josh Nelson, P.E., Orange County Branch President, devoted his column in the Branch newsletter to this subject. With his permission, his article is reprinted in this issue of the Section newsletter for the benefit of all members of the Section.

Have a great Engineers' Week and I hope to see you in Sacramento and Monterey Park.

---

## ARTICLE

---

*continued from page 2*

# 100 Years: Vision Statement Highlights L.A. Chapter's Centennial

closely involved with the Section, is establishing the groundwork for our year long event. We are looking for others to work with us to develop programs and events that will further exemplify our commitment to the infrastructure and the overall development of the quality of life in the Section.

We are excited about what we can do with this. This is an opportunity to bring our message to engineers and non-engineers alike. The Committee has developed a vision statement to guide us as we develop the overall program:

### **VISION STATEMENT: American Society of Civil Engineers**

#### **Los Angeles Section Centennial Celebration**

In 2013 the Los Angeles Section of the American Society of Civil Engineers will be celebrating the 100th Anniversary of the formation of the Section. The Centennial celebration will take place throughout the year of 2013 and will include a number of events that will carry the message of the importance of civil engineering past, present, and future. The following statement captures the vision for the celebration and provides guidance for those developing Centennial celebration events.

"The Centennial celebration of the Los Angeles Section of the Ameri-

can Society of Civil Engineers will promote the values of the society and celebrate the history of the Section through:

- Programs to enhance student and younger member involvement by promoting the value of ASCE and civil engineering to younger engineering professionals;
- Programs for local agencies, elected officials, and the general public to showcase the contributions made by civil engineers and the Society in support of infrastructure, communities, and economic development of southern California;
- Personal involvement with public officials to emphasize the value of investment in infrastructure;
- Engaging civil engineers and ASCE in the celebration of the Section and its history; and
- Programs to introduce the value of learning math and science and the profession of civil engineering to students in grades K-12.

This is an exciting time. Please join us as we work together to celebrate the work that our predecessors have done as well as what our successors will do. Please call me at 213-922-7491 or email me at sepulvedad@metro.net if you would like to work with us.

## Reminder:

*Copy deadline for the March 2012 issue is Feb. 1, 2012; copy deadline for the April 2012 issue is March. 1, 2012.*

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

## 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.

### Too valuable to waste

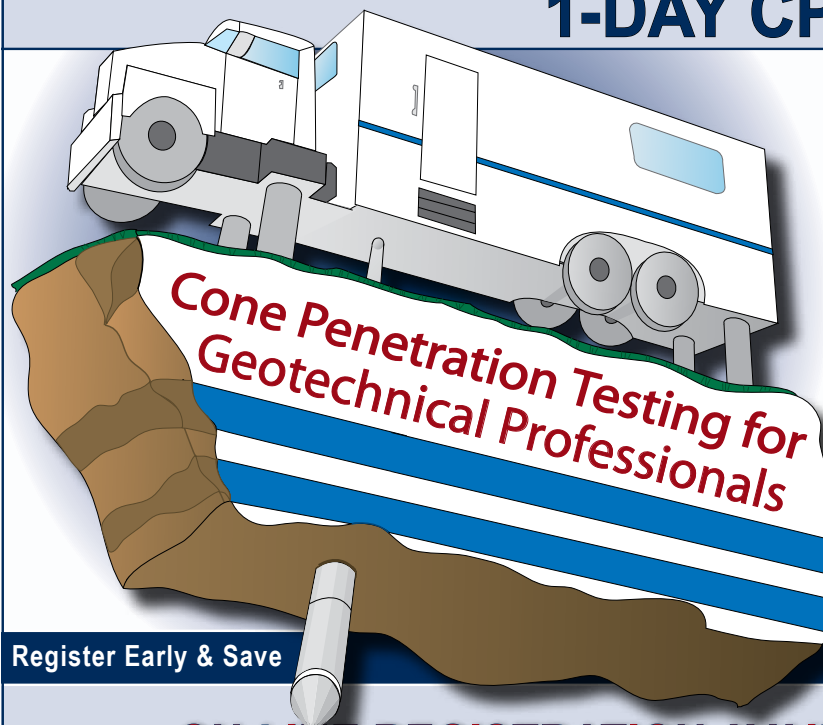
**Recycled tires:**  
For your paving & civil  
engineering projects



Grants • Technical Assistance  
[www.PavingGreenRoads.com](http://www.PavingGreenRoads.com)

**CalRecycle**

## 1-DAY CPT SHORT COURSE



### SOUTHERN CALIFORNIA:

Friday - APRIL 6, 2012  
HYATT REGENCY RESORT  
Huntington Beach

### COURSE INSTRUCTOR:

Dr. Peter Robertson

Register Early & Save

Earn Professional Development Hours (PDH's)

• **ON-LINE REGISTRATION AVAILABLE** •

Go to [www.greggdrilling.com/seminars.html](http://www.greggdrilling.com/seminars.html) to enroll on-line today.

**Course Tuition:** \$195.00 early registration - \$270.00 late registration

Presented by:  
**GREGG**  
  
Phone: (562) 427-6899





The Los Angeles Section

Cordially Invites You to the

# Life Member Brunch

March 3, 2012

In Honor of those members who have advanced to  
Life Member status in the society and in recognition of their career achievements.

**Keynote Speaker:**

**ASCE Society President-Elect,  
Greg DiLoreto, P.E., F.ASCE.**

Members & Guests: \$30.00 per person

Table Sponsor: \$300.00 (4 seats for Sponsor & 6 for Honored Life Members)

**Reception: 11:00am      Brunch: 11:30am      Program: 12:30 – 2:00pm**

Lunch: Chicken Chardonnay, Vegetarian available

**Reservation must be received no later than Friday, February 24.**

**Monterey Hill Steakhouse**

3700 W. Ramona Blvd.  
Monterey Park, CA 91754  
323-264-8426

*For reservations, please send checks to:*

*ASCE, Los Angeles Section  
1405 Warner Avenue  
Tustin, CA 92780*

## -----Return Coupon-----

**Return to: ASCE, Los Angeles Section, 1405 Warner Ave. Ste B, Tustin, CA 92780**

**Attn: Gayle Stewart    Phone: 714-258-8306**

**Name (for nametag)** \_\_\_\_\_ **Phone (    )** \_\_\_\_\_

**Firm** \_\_\_\_\_ **Fax (    )** \_\_\_\_\_

**Address** \_\_\_\_\_

**City** \_\_\_\_\_ **State** \_\_\_\_\_ **Zip** \_\_\_\_\_

**Spouse / Guest Name(s) (for nametag)** \_\_\_\_\_

**My check for \$\_\_\_\_\_ is enclosed for \_\_\_\_\_ guests/members/table. #\_\_\_\_\_ Vegetarian**

**Make checks payable to: ASCE, Los Angeles Section or register with credit card online**

**[www.ascelasection.org](http://www.ascelasection.org)**

# PS 465 (aka RTB) and B+M/30 & E (aka BOK) = \$\$\$+R

By Joshua Nelson, P.E.  
President, ASCE Orange County Branch

(Note: this article originally appeared in the December 2011 issue of the Orange County Branch newsletter. It is reprinted here, with permission from Mr. Nelson, for the benefit of all members of the Los Angeles Section. To access the various links, please view the original version, available on the Branch's website at [http://www.asceoc.org/index.php/newsletter/article/presidents\\_message\\_dec2011](http://www.asceoc.org/index.php/newsletter/article/presidents_message_dec2011).)

Want to make more money? Want to get more respect from the general public? Support ASCE's PS 465 (aka RTB) and B+M/30 & E (aka BOK). I know what you are thinking: my article title got replaced with some HTML code right? Or maybe my newborn was banging on the keyboard while I was typing. Then again all engineers like a good equation right? Well the ASCE has a lot of momentum going with a couple key initiatives that I summed up in that simple formula. Now I am guessing you all want to know what all that means right? Well here you go:

PS 465 = Policy Statement 465

RTB = Raise the Bar

B+M/30 = Bachelor's + Master's or 30 Acceptable Credits

E = Experience

BOK = Body of Knowledge

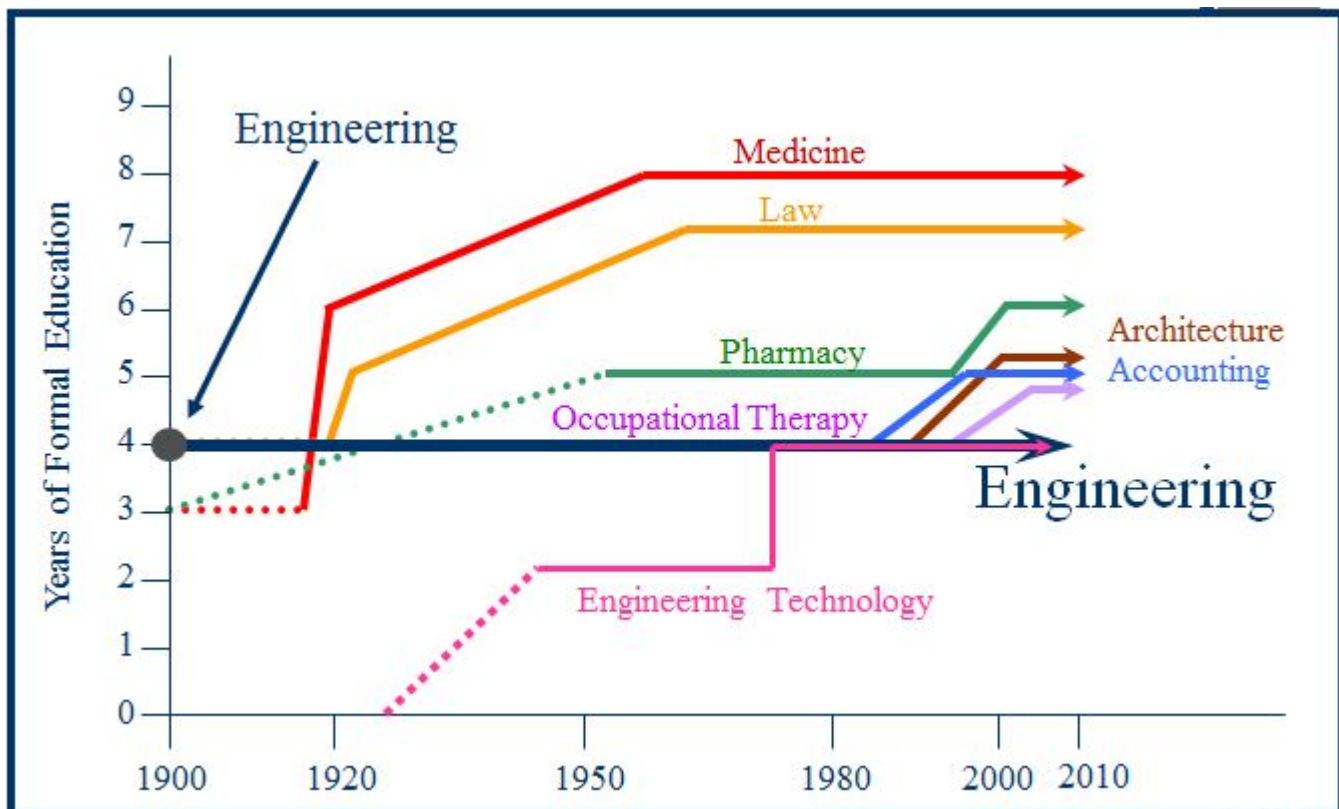
R = Respect

So how does that all lead to \$\$\$ and respect? Well let's establish a couple facts about other professionals. As stated in PS 465, while the education requirements for physicians and attorneys have been increased with the growing demands of their respective professions, the requirements for the practice of engineering have remained virtually unchanged. Today, many other professions beyond medicine and law require education beyond the baccalaureate degree including pharmacy, architecture, occupational therapy and accounting. In fact society President-Elect Greg DiLoreto, PE F.ASCE shared this graphic with us at the November dinner (a picture says a 1,000 words right?)

Is our job that much easier? Is there really less knowledge that we should have as Civil Engineers? I'd say no way. What PS 465 states is:

"The American Society of Civil Engineers (ASCE) supports the attainment of a Body of Knowledge (BOK) for entry into the practice of civil engineering at the professional level. This would be accomplished through the adoption of appropriate engineering education and experience requirements as a prerequisite for licensure."

This is in line with NCEES' model rules for all engineers, but the full policy statement was written specifically for Civil Engineers. The ASCE board of directors adopted PS 465 on April 24, 2007. The BOK part of the equation is B+M/30 & E. The issue we have is that the civil engineering profession is undergoing significant, rapid, and revolutionary changes that have increased the Body of Knowledge required of the



profession. These changes include the following:

- Globalization has transcended the historically recognized worldwide geographic boundaries primarily as a result of enhanced communication systems.
- Information technology continues to make more information available; however, the analysis and application of this information is becoming more challenging.
- Complex systems are requiring integration of our knowledge and skills outside of traditional sub-discipline focus.
- The diversity of society is challenging our traditional views and increasing our need for improved interpersonal and communications skills.
- Many clients are searching for leadership in new management approaches that equitably manage risk as well as improve cost, quality and safety performance.
- New technologies in engineering and construction are emerging at an accelerating rate
- Enhanced public awareness of technical issues is creating more informed inquiry by the public of the technical, environmental, societal, political, legal, aesthetic, and financial implications of engineering projects.
- Civil infrastructure support within the United States is rapidly changing from a focus on development and operation, to the innovative renewal, maintenance, and improvement of existing systems, and the visionary development of new systems.

One of the rationales for the BOK is the “retention of a four-year undergraduate engineering education (as opposed to 5+ years) has contributed to the lowered esteem of engineering in the eyes of society, and prospective students and the commensurate decline in the perceived value brought forth by engineers relative to other professions.” Another rationale is academia is being forced to try and squeeze more content into the baccalaureate curriculum while at the same time reducing the credit hours necessary for the baccalaureate degree. The result is a baccalaureate civil engineering degree satisfactory for an entry-level position, but becoming inadequate for the professional practice of civil engineering. Of course this won't happen overnight. The education requirements are most likely still 10-15 year out and of course, everyone prior to those changes will be grandfathered in. The NCEES is behind it but not all the state boards are necessarily behind it at this point. I think they all agree in principle that changes are needed, they just have different ideas on how to get there.

One of the interesting points about the 30 credits is that only half of them need to be specifically engineering coursework. The intent for the non-engineering classes are to help us be more well-rounded. Those of us out of school most likely didn't get training in the professional/

soft skills that are essential for a lot of us. An interesting statistic from the frequently asked questions that are linked to at the bottom of this article is that those BS engineers with a master's degree in engineering or a science master's are about half as likely to progress to senior management positions as those BS engineers with a master's in business or even in social sciences. So by allowing half of the 30 credits to be non-engineering coursework, the ASCE hopes to help us all be more well-rounded. Another interesting indicator that is concerning is we have seen a slippage in engineers holding the role of the State Secretary of Transportation. As of January 2002, only 18 of the 50 secretaries had bachelor's degrees in civil engineering.

What about respect? Our current society president pointed out in a recent blog post that we get no respect as engineers. As he said, while the general public has labeled us as trustworthy, we “get virtually no respect or recognition for what we do. It's probably our fault. We are by our training a modest group, we don't look for glory, and it sure doesn't seek us out”. On his wall he has a poster from ACEC that says, “You can't – drive to work, cook that pot roast, bake that cake, shower after jogging, watch 60 Minutes, toast the bread, brew the coffee, call your mother, be cool in summer, wash your sweat suit, dine out, play computer games, medicate your colds, build your new house, listen to “ol' Blue Eyes”, ride your bike, video that wedding, vacuum that rug, recycle your garbage, play baseball at night, be warm in the winter, fly to Hawaii, check the time, flush the toilet, buy a fresh tomato in winter, fill that cavity, use the cash machine, mail those letters – without an engineer.”

So what can you do? Spread the word! Tell your colleagues about this. Join the “Raise the Bar Network” here. I want to leave you with this statement that the Society came up with in response to a question about how the cost of engineering services will probably increase. It was encouraging to me:

If the requirements for academic preparation for professional practice are increased, then the both the cost and the quality of engineering work requiring professional services should increase. Salary expectations of individuals are likely to increase modestly, based on historical data. Consulting engineering firm overhead will increase modestly, to compensate for the portion of educational costs of individuals borne by firms. The increase in the cost of professional engineering services is likely to be partially offset by the significant market that will develop in the “built environment” for non-licensed engineers with BS degrees who will be integral parts of engineering teams. The overall increase in the cost of engineering services has been estimated by some to be a couple of percentage points. ASCE contends that the increase in quality of engineering services will more than make up for the added cost.

Any comments? If so, please start a discussion on our Facebook page or our LinkedIn page or reply to us on Twitter.

Please note that I pulled a lot of the info above from the frequently asked questions that you can find at <http://www.asce.org/Content.aspx?id=2147485470>.



**AECOM**

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

www.aecom.com

**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

9307 Research Drive  
Irvine, CA 92618

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

**AEI-CASC CONSULTING**  
ENGINEERING OUR FUTURE

CIVIL ENGINEERING  
PLANNING  
ENVIRONMENTAL ENGINEERING  
SURVEYING

CORPORATE OFFICE  
937 S. Via Loma, Suite 500  
Costa Mesa, CA 92624  
(949) 783-0101

Offices throughout California  
www.aei-casc.com

**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

**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

**Cannon**  
ENGINEERING • PLANNING • CONSTRUCTION

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

310.664.1166  
www.CannonCorp.us

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

Monrovia Office (626) 930-1200  
Fax (626) 930-1212

Costa Mesa Office (714) 444-9660  
Fax (714) 444-9640

Redlands Office (909) 796-0544  
Fax (909) 796-7675

Sacramento Office (916) 331-5444  
Fax (916) 331-6444

www.converseconsultants.com

**DIAZ • YOURMAN & ASSOCIATES**

Christopher M. Diaz, P.E.  
Principal

**Geotechnical Services**

1616 East 17th Street Santa Ana CA 92705-8509  
Tel. (714) 245-2920 • Fax (714) 245-2950 • Mobile (714) 412-2093  
chris@diazyourman.com www.diazyourman.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

**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

**EARTH SYSTEMS**

Geotechnical Engineering  
Engineering Geology  
Environmental Consulting  
Materials Testing & Inspections

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

**GENTERRA CONSULTANTS, INC.**

Joseph J. Kulikowski, PE, GE  
President and Senior Principal Engineer  
15375 Barranca Parkway, Bldg L  
Irvine, California 92618  
(949) 753-8766  
joekul@genterra.com  
www.genterra.com

CIVIL AND GEOTECHNICAL ENGINEERING • DAM ENGINEERING  
OFFICES IN NO. & SO. CALIFORNIA, COLORADO AND PENNSYLVANIA  
SERVICES PROVIDED NATIONWIDE

**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

**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

**GPI**  
GEOTECHNICAL PROFESSIONALS, INC.

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

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

**gsi** Geotechnical Stabilization, Inc.

Amer R. Al-Asuli, 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

**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

**GROUP DELTA CONSULTANTS**

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) 809-1020  
San Diego County: (858) 524-1500  
www.GroupDelta.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

**HDR**

ONE COMPANY | Many Solutions™

SERVICES:  
Water/Wastewater • Transportation  
Environmental • Construction Management

801 So. Grand Avenue, Suite 500, Los Angeles, CA 90017  
213.239.8800 www.hdrinc.com

**HESS ENGINEERING INC**  
Structural Engineers

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

www.HessEng.com

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

**JENSEN DESIGN & SURVEY, INC.**

1672 Donlon Street  
Ventura, California 93003

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

www.jdscivil.com

**"Designing for the Future"**

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

Engineers Planners Surveyors

**OSBORN K&A FALLAHI**  
Engineering, Inc.

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

- Engineering
- Land Planning
- Surveying

**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

**KRIEGER & STEWART** INCORPORATED

- WATER
- WASTEWATER
- RECYCLED WATER
- STORM WATER

ENGINEERING CONSULTANTS

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

Geotechnical Environmental Site/Civil

**LANGAN**  
ENGINEERING & ENVIRONMENTAL SERVICES

www.langan.com

Irvine San Francisco Oakland San Jose Sacramento  
California New Jersey New York Connecticut Florida Pennsylvania Virginia

**Leighton Consulting, Inc.**

866-LEIGHTON

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

Geotechnical | Environmental | Testing and Inspection

**Irvine**  
Bakersfield  
Los Angeles  
Palm Desert  
Rancho Cucamonga  
San Diego  
Santa Clarita  
Temecula  
Ventura  
www.leightongroup.com

**LGC** LGC Valley, Inc.  
Geotechnical Consulting

Matthew Hawley, PG, CEG  
President

28532 Constellation Road  
Valencia, CA 91355  
Phone 661-702-8474  
Fax 661-702-8475

Mobile 805-404-6103  
mhawley@lgcgeo.com  
www.lgcgeo.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

**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  
srmavin@labellemarvin.com  
www.labellemarvin.com

**MACTEC**  
GEOTECHNICAL • ENVIRONMENTAL • HAZARDOUS MATERIALS • CMT

Perry A. Mallon, G.E.  
Senior Vice President  
pamallon@maectec.com

Marshall Law, Ph.D., G.E.  
Senior Principal/Vice President  
mlaw@maectec.com

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

Hedy Abadi, Ph.D., P.E.  
Director of Environmental Services  
h.abadi@maectec.com

Edward C. Trsasors, P.E.  
Principal Materials Engineer  
ectrsasors@maectec.com

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

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

**THE MOOTE GROUP**

Land Development Consultants  
Cost Estimating  
Construction Management  
Dry Utility Consulting/Coordination  
Public/Private Bid Administration  
CFD Administration  
Electronic/Telephone Applicant Designs  
Expert Witness/Litigation Support  
SBE, DBE, WBE Certified

Office: 714-751-5557  
1516 Brookhollow Drive  
Santa Ana, CA 92705

Contact:  
Marj Knitter, President - mknitter@moote.com or  
Mike McGovern, PE, FASCE - mmcgovern@moote.com

Paul A. Moote & Associates, Inc. www.moote.com

**NMG**

Geotechnical, inc.

**Hayim Ninyo  
Ted Miyake**

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

**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

**PACE**

Advanced Water Engineering

ADVANCED WATER ENGINEERING  
...in partnership with nature

- Water / Wastewater
- Stormwater Management
- River / Wetland
- Manmade Lakes / Streams
- River Engineering
- Restoration
- 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

**PARSONS**

100 West Walnut Street  
Pasadena, California 91124  
(626) 440-6263 • Cell: (626) 483-3171  
Fax: (626) 440-2702  
surendra.thakral@parsons.com

**Surendra K. Thakral, P.E., BCEE**  
Senior Vice President, Technology & Business Development

www.parsons.com

**PARSONS BRINCKERHOFF**

Moving California Forward

Los Angeles (213) 362-9470  
Orange (714) 973-4880  
Inland Empire (909) 883-1106

Visit us on the web at [pbworld.com](http://pbworld.com)

**Penfield & Smith**

Engineering • Surveying • Planning  
Construction Management

- Civil Engineering
- Surveying & Mapping
- Land Use Planning
- Construction Management
- Traffic Engineering
- Transportation Planning
- Financing District Services

Santa Barbara Corporate Office  
(805) 963-9532  
Camarillo Office  
(805) 981-0706  
Santa Maria Office  
(805) 925-2345  
Lancaster Office  
(661) 949-6676

**PETRA**

past + present + future

**Geologists  
Geotechnical Engineers  
Environmental Scientists**

888-243-6100

**THE PRESSURE GROUP COMPANY**

**Steven C. Chandler**  
Branch Manager

1975 National Avenue  
Hayward, CA 94545-1709  
510-887-2244

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

www.pressuregroup.com • e-mail: [pg@pressuregroup.com](mailto:pg@pressuregroup.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

**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

P: (805) 543-1794 | [www.rmdesign.com](http://www.rmdesign.com)

**rmdesigngroup**

creating environments people enjoy®

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

**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: [sahmad@saassociates.net](mailto:sahmad@saassociates.net)

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

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

**TWINING LABORATORIES**  
OF SOUTHERN CALIFORNIA

Debanik Chaudhuri  
Chief Geotechnical Engineer

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

2883 East Spring Street  
Suite 300  
Long Beach, CA 90806

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

**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

**VAC CONSULTING**

Max Vahid, P.E.  
President and CEO  
[maxvahid@vacconsultinginc.com](mailto:maxvahid@vacconsultinginc.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

**WALLACE GROUP®**

805 544-4011  
www.wallacegroup.us

**DEDICATION TO SERVICE®**

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

**WEIL & DRAGE**  
Attorneys at Law

www.weildrage.com

Serving the Design Professional community in a wide range of construction and business-related matters.

California • Nevada • Arizona  
(949) 837-8200 (702) 314-1905 (602) 971-0159

## MATERIALS SUBMISSION INFORMATION

All graphic materials submitted for use in the ASCE newsletter should have all fonts outlined, and links included; EPS or PDF files preferred. Other formats are Adobe InDesign or Adobe Illustrator (any version); additional acceptable file formats are JPEG or TIFF files (minimum 300 dpi). Images embedded in Microsoft Word documents should be sent separately, at a minimum resolution of 300 dpi at the display size desired. Collected files, including links and fonts, should be compressed and e-mailed, or sent on CD or Zip disk (provide return address). Business cards can be submitted electronically as well, or send clean, crisp, B&W laser print, unfolded. This publication's size is 8½" × 11".



## 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., 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*.

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



This newsletter is printed on  
 Forest Stewardship Council  
 (FSC)-certified paper using  
 soy-based ink.

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

## ASCE OFFICERS AND DIRECTORS OF THE LOS ANGELES SECTION, FY 2011-2012

President	John Hogan, P.E.	Hall & Foreman, Inc.	714-665-4507	jhogan@hfinc.com
President-Elect	Michael Thornton, P.E.	T K E Engineering Inc.	951-680-0440	mthornton@tkeengineering.com
Past President	Gregory Heiertz, P.E.	Irvine Ranch Water District	949-453-5560	heiertz@irwd.com
Secretary	Janice Horcasitas, P.E.	City of Bakersfield	661-326-3607	jhorcasi@bakersfieldcity.us
Treasurer	Katherine Shinkai, P.E.	LPA	949-701-4033	katherine.shinkai@gmail.com
Vice-President Student Activities	Gregg Fiegel, PhD, P.E.	Cal Poly San Luis Obispo	805-756-1307	gfiegel@calpoly.edu
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	Marlon Calderon, P.E.	City of LA, Bureau of Engineering	213-473-6233	marlon.calderon@lacity.org
Orange County Branch	Josh Nelson, P.E. M.ASCE	CNC Engineering	626-333-0336	Jnelson@cc-eng.com
San Bernardino/Riverside Counties	Rita Escobar	AECOM	714-567-2498	Rita.escobar@aecom.com
San Luis Obispo	Vallerie Huff, P.E.	Wallace Group	805-544-4011	valerieh@wallacegroup.us
Santa Barbara/Ventura Counties	Marta Alvarez, P.E., P.L.S.	Y.C.E. Engineering & Surveying	805-650-6995	yce-mya@pacbell.net
Southern San Joaquin	Jay Schlosser, P.E.	AECOM	661-325-7253	Jay.schlosser@aecom.com
Younger Member Forum	Amber Girard	CH2MHill	213-228-8207	Amber.Girard@CH2M.com
Life Member Forum	Larry Lewis, P.E.	Retired / City of Los Angeles	562-927-2088	ML3Lewis@aol.com
Region 9 Governor	Jay Higgins, P.E.	URS Corporation	818-406-4896	jay_higgins@urscorp.com

## 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 Gayle Stewart at (714) 258-8306  
 or gstewart@associationplanet.com

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