Dec. 05

Season's Greetings To All!!!

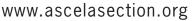
#### VOL\_XLV NO\_12

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#### Reminder:

Copy deadline for the January 2006 issue is December 1, 2005; copy deadline for February 2006 issue is January 1, 2006.





# Los Angeles Section

# Monthly: Est. 1913

ORANGE / SAN\_BERNARDINO/RIVERSIDE / SAN\_LUIS\_OBISPO / SANTA\_BARBARA/VENTURA / DESERT / SOUTHERN SAN\_JOAQUIN / METROPOLITAN LOS ANGELES

# "Americans will put up with anything provided it doesn't block traffic."

PRESIDENT'S MESSAGE

Rich Haller, P.E. Section President

Seasons Greetings! On behalf of the Los Angeles Section Board, I would like to wish you and your family a joyous holiday season and a happy new year! Whether you celebrate Christmas, Hanukkah, Kwanzaa, or not at all, this is a great time of year to reflect on our accomplishments, say "thank you" to those responsible, and resolve to improve things we should do better. **The Los Angeles Section has had a fantastic year!** Accomplishments include:



- A very successful National Conference including great speakers and tours.
- A community service project at the Bradley Multipurpose Senior Center.
- Infrastructure Report Cards for the Inland Empire (San Bernardino/Riverside Counties), Orange County and Los Angeles County.
- Section Awards and Installation Banquet at Disneyland's Club 33.
- Awards including the ASCE National Public Service Award presented to the Section's Younger Member Forum.
- Recognition of the careers and achievements of new Life Members at the annual Life Member Banquet.
- Legislative Day in Sacramento.
- Numerous Engineers' Week activities including career presentations, banquets and awards.
- Sponsorship of numerous worthy activities including Architect, Construction and Engineering Mentoring Program.
- High quality newsletters throughout the year; resolution of timely delivery problems.
- Revamping of the Section website.
- A balanced budget.

These accomplishments were only possible through the hard efforts of our dedicated volunteers. A big "**thank you**" goes to these volunteers for a job well done! Despite the risk of missing a name, I would like to recognize the following individuals:

- The Annual Conference Planning Committee: Bob Bein, Paul Taylor, Carl Blum, Chuck Rendall, Norm Buehring supported by Jay Higgins, Edgar Dymally, Dolores Ventura, and Sonia Nasser.
- Community Service Project: Julian Garcia, Diego Cadena
- Infrastructure Report Cards: Orange County over 100 volunteers led by Yazdan Emrani and Jan Scherfig. LA County over 80 volunteers led by Harvey Gobas
- Legislative Day: Michael Thornton
- High quality newsletters: Cris Liban, Russ Ryan
- Section Website: Gail Stewart Enterprises

# **This Holiday Season**

I went to lunch with a long lost friend two weeks ago. I was amazed at how time has flown and how much different our paths have become since separating in 2000. While I already have vague recollection of a lot of the things we discussed, what remains ingrained in my mind is the tragedy he talked about regarding an engineer friend who recently died in the Middle East. This friend did not want to go to the Middle East but because he was in the Reserves, he did not have a choice.

Why am I bringing this point in this newsletter? In this time of holiday season joy, please do not forget that somewhere out there, fellow Americans are defending for a cause and that they are dying for it. Regardless of the arguments for or against this war, we should remember during this time that among those who have given up their lives and those who remain to be active are fellow engineers, Civil Engineers. We are most likely not going to talk about them over turkey and mashed potatoes and ham. But please, say a short prayer or have a fleeting thought for their safety. I believe that simple act would more than suffice. We dedicate this issue to them and the rest of the Armed Forces of the United States of America!

We have a couple of very interesting articles in this issue. One of which is a legislative brief on Infrastructure Funding and another an article on a Community Service project performed for the Bradley Multipurpose Center in Watts.

Do not miss reading the page containing the recently unveiled Los Angeles County Infrastructure Report Card and the accompanying Citizen's Guide to gauge what the grades mean. An article in our last issue touched on the Report Card briefly. The details of that article are now provided to you. A more thorough Citizen's Guide is posted in our Los Angeles Section website: <u>www.ascelasection.org</u>.

Finally, our Section President in his message is calling for action to get involved in Section activities. Why not? The direction of this Section's future is driven by inputs of members like yourself. The more we hear about your concerns or issues (or plain satisfaction with current activities), the more we will work hard for you.

Support our troops. Support our Section and the supporters of our Section.

Enjoy this issue of your newsletter!

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

ANNO UNCEMENT

### 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. ARTICLE

# **INFRASTRUCTURE FUNDING**

Prepared by Hamid Bahadori, P.E. with Contributions from Michael Thornton, P.E.

The \$117 billion state budget, signed by Governor Schwarzenegger on July 11, 2005, has an 11% increase in spending over the previous year budget. For the first time in many years, the \$8.2 billion in motorist-derived revenue (excluding the vehicle license fees) will be spent on transportation, including expenditures for the California Highway Patrol and Department of Motor Vehicles.

Also, for the first time since its approval by California voters, the annual revenues from Proposition 42, approximately \$1.3 billion, will be used for transportation projects and programs. This is a significant victory for the transportation community in the State and ASCE (ASCE members who participated in legislative activities deserve some credit for the efforts made and the results).

Proposition 42 funds will be spent as follows:

- \$678 million for previously approved projects,
- \$254 million for State Transportation Improvement Program (STIP),
- \$254 million for local streets and road maintenance and repairs,
- \$127 million for public transit programs.

Furthermore, on August 10, 2005, President Bush signed the six-year federal transportation bill known as "Safe, Accountable, Flexible, Efficient Transportation Act; A Legacy for Users", or SAFETEA-LU. This was done after almost 18 months of delays and temporary extensions of TEA-21. This bill authorizes almost \$286 billion in federal transportation spending through 2009. The funds will be used for highway programs (79%), transit programs (19%) and highway safety (2%).

Among the most important features of the new bill affecting California is the increase in the minimum guaranteed rate of return of transportation taxes collected in each state to 92% by 2008. Currently the guaranteed rate of return for California is 90.5%. In regard to the immediate and nearterm impact of SAFTEA-LU, California will receive nearly \$3.2 billion (\$1.4 billion to the State and the remainder to local governments) during the current budget year (2005-06) and just under \$3.5 billion (\$1.5 billion to the State with the remainder to local governments) during the next fiscal year (2006-07).

Transportation expenditures during the budget year are estimated at \$6.1 billion (including roughly \$1.4 billion in federal funds). Great news for ASCE and residents of the State; however, the Proposition 42 funds, and other transportation monies, continue to remain vulnerable without reform of the state budget process and other federal funding constraints. To ensure transportation funding for the future, ASCE's membership will be required to continue legislative efforts. A huge infrastructure bond may be in the works. Our membership must get involved to ensure engineers influence such legislation.

ASCE's 2005 Member-Get-A-Member Drive Depends on You! ARTICLE

# Community Volunteer Project Completed Immediately Following Annual Conference

For the third year, ASCE completed a community project the day after the National Conference (October 30<sup>th</sup>). This year's event was especially important to the LA Section because the conference and community project were located in LA. The Bradley Multipurpose Senior Center in Watts was the site of this year's



PRESIDENT'S MESSAGE CONTINUED

 Balanced budget: LA Section Board including Neil Morrison President, Mark Tufenkjian, Treasurer

**New Year's Resolutions**. I would like to challenge the collective civil engineering community and your Los Angeles Section to:

- Be more involved. If not active in ASCE events, get active. If active already, provide greater input to what is going on.
- Be infrastructure advocates.
- Be a mentor.
- Tell students and the public at large about civil engineering.
- Nominate a project or person for an award.
- Become a legislative liaison. Designate a liaison in each of the legislative districts within the Section.
- Complete the Office of Emergency Services disaster training; be available for disaster assistance.
- Have fun as a civil engineer.

Interested in taking on the challenge? Contact me or your Branch President! See you in 2006!

### Find out the latest section & branch news @ www. ascelasection.org

project, with over 100 volunteers from ASCE participating. Work included installing new lights and an automatic door opener, pouring concrete pads, refurbishing benches, painting exterior and interior portions of the building, landscaping, constructing a handicap ramp, etc. During lunch, the group was joined by Cynthia Ruiz, President of the Board of Public Works, the Assistant General Manager of the Department of Aging, and Dennis Martinson, President of ASCE. A lot was accomplished as a result of the day's work. The Bradley Multipurpose Senior Center greatly appreciates the results!



### HYDROLOGY/HYDRAULICS/ENVIRONMENTAL SOFTWARE Complete Libraries of Computer Software

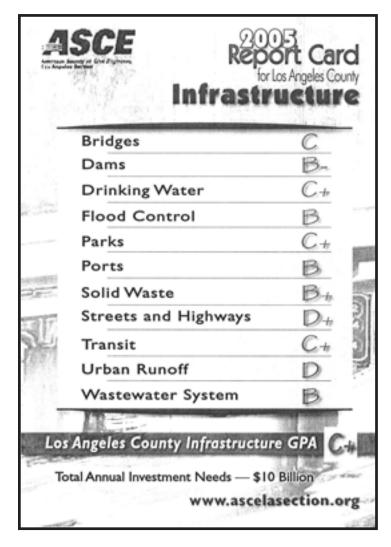
Based on the Hydrology Manuals for Flood Control Agencies throughout California. AES Program Authors include the Principal Authors of County Flood Control Agency Hydrology Manuals and Authors of U.S. Government Public Domain Programs for Hydrology, Hydraulics, Sediment Transport, Atmospheric Mechanics and Groundwater Flow.

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The AES Programs and the AES Stormwater Information Management System (SIMS) have been used to develop 55 City-Wide and County-Wide Master Plans of Drainage and has been the standard for preparing drainage studies since 1980.
AES Program Developers & Support: Theodore V. Hromadka, II, Ph.D., Ph.D., Ph.D., P.E., P.H., Professor Emeritus, California State University, Fullerton; Johannes J. DeVries, Ph.D., P.E., University of California, Davis; Howard H. Chang, Ph.D., P.E., Professor, San Diego State University; Paolo Zannetti, Ph.D., QEP, President, EnviroCOMP; Robert J. Whitley, Ph.D., Professor, University of California, Irvine; Carlos Brebbia, Ph.D., Director, Wessex Institute of Technology; Gary Guymon, Ph.D., P.E.

# Los Angeles County Infrastructure Report Card



- **Bridges** Over 40% of the County's bridges rate a C or lower, including many that are structurally deficient or functionally obsolete. Needed improvements include upgrading of older safety rail, adding lanes (widening), and major replacements.
- **Dams** Many of the County's 96 dams are over 50 years old and their auxiliary, mechanical, and electrical components are nearing the end of their useful lives. If the existing dams are not kept in safe operating condition, their structural and functional condition will deteriorate placing the public's flood protection and water conservation benefits in jeopardy.
- GH Drinking Water While, water quality and capacity generally rate well, facility condition does not with a large percentage of the County's water systems constructed prior to 1950 and nearing the end of their useful lives. The replacement of these aging distribution systems poses a major problem for water agencies.
- **B** Flood Control Although the County's flood control system performed well during historic rains earlier this year, it is nevertheless important to continue improvements to the aging system including measures to protect water quality and reduce pollution.
- **Parks –** The City and County of Los Angeles operate over 700 recreational facilities. Some of these facilities are below desirable operating standards while others are in need of upgrade or replacement. Additional funding is also required for land acquisition to acquire and develop new park facilities.
- **Ports –** The San Pedro Ports comprise the fifth busiest shipping terminal in the world. Given the important role they play in our local economy, a good on-going maintenance program

in addition to regular assessment and upgrade of the port's infrastructure are vital to ensuring the continued reliable movement of cargo.

Solid Waste – Los Angeles County has the largest and most complex solid waste system in California. Despite the numerous available disposal facilities, solid waste managers are faced with various challenges, including decreasing landfill capacity, overcoming public opposition to establishing new facilities, recycling and disposal constraints, and transportation issues.

**Streets and Highways –** Traffic congestion and local pavement conditions have continued to decline during recent years. Without significant additional funding, congestion and pavement condition in Los Angeles County will continue to worsen, resulting in increased vehicle repair costs, traffic delays, fuel consumption, and vehicle emissions.

**Transit** – While Southern California has benefited from numerous regional and local transit systems, the area continues to suffer from a number of operating issues that prohibit continued growth. These issues include continually worsening traffic, which slows busses, effecting on-time performance; the need for additional trips to compensate for traffic delays; and rising fuel costs.

**Urban Runoff** – Urban runoff continues to pose major water quality problems in Southern California with experts disagreeing on the needed funding requirements by two orders of magnitude. Despite these problems, there has been a recent positive development in the 2004 passage of the City of Los Angeles' Measure 0, a general obligation bond for water quality improvements.

**B** Wastewater System – Most of the thousands of miles of primary and secondary sewers, hundreds of pump stations, and nlJmerous major treatment plants in Los Angeles are in fair to good condition. Nevertheless, there are a number of facilities which rated a "C" or "D" that need to be upgraded, rehabilitated, or replaced.

### Helped by ASCE, High School Mentoring Program Continues To Grow

Aided by funds from ASCE-Los Angeles Section, assisted by the Branches, and with the personal participation of several ASCE members, the ACE Mentor program is in its fourth academic year. From a modest start in three schools, the program has grown to 14 teams involving students in 17 high schools. Eleven of these schools are in Los Angeles County, four in Orange County, and two in Riverside County; 300 students now are active.

The program joins teams of a half-dozen professionals to teams of about two dozen high school students. The students are introduced to career possibilities in Architecture, Construction and Engineering (ACE). They work together, after school every two weeks, for an academic year. Some meetings are in professional offices and at construction sites.

Scholarships are made possible by donations from individuals and from organizations like ASCE. Last May, 37 awards were made to ACE participants graduating from high school and going into post-high school programs in college or in building trade apprenticeship programs. An added 31 winners from previous years are eligible for renewal of scholarships, when they certify that their studies are continuing in the ACE disciplines (architecture, construction, engineering). ACE winners are enrolled now at these schools, among others:

Brown University	Cal Poly SLO	East LA College
Glendale College	Irvine Valley College	L A Trade Tech College
MIT	UCIrvine	UCLA
UCSD	Woodbury University	

OBITUARY

# **Charles "Gunner" Gunnerson**

Charles "Gunner" Gunnerson passed away on October 7, 2005. Gunner was born on June 5, 1920. He was a registered Civil Engineer in California, having graduated from UCLA in 1948. His career was very extensive having worked for the State of California, the Federal Government in Ohio and Colorado, then as a consultant in Turkey and Indonesia. He was with the World Bank in Washington, D.C.

Gunner retired from the Federal Government following 47 years with various agencies. He was an ASCE Fellow and Life Member.

After retirement, he continued consulting for the World Bank and taught at U.C. Irvine. He earned a Master Degree in Anthropology from the University of Colorado, Boulder after retirement.

During World War II, he served as an officer for four years in the U.S. Army, part of the time being in the Philippines. During the Korean War, his active army duty took him to the Panama Canal Zone.

Gunner received ASCE awards that included the Rudolph Hering awards in 1960 and 1967, followed by the Wesley W. Horner Award in 1975.

He was also the co-author of a World Bank publication titled "Wastewater Management for Coastal Cities: The Ocean Disposal Option".

#### ANNOUNCEMENTS

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### **BS Degree Week-Day Programs (IIT)**

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- PE Engineering License Manuals

For further information: www.irvine-institute.org or www.cpeinst.com Phone 949-585-9137, Fax 949-585-9126 e-mail info@irvine-institute.org or info@cpeinst.com

# **DISASTER TRAINING**

Classes are being organized for volunteers to help in the event of a major disaster under the auspices of the State of California, Office of Emergency Services (OES). Classes will be held in alternate 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.

To register for the class submit your name along with your Telephone number, Fax number. Zip code, and Email address. You will be contacted when sufficient number of applicants request a class.

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

Thank you for your support of the American Society of Civil Engineers

Jack W. Rolston, Chair, Disaster Preparedness Committee, L A Section, A S C E 818-345-9199 818-345-5283 fx



American Society of Civil Engineers

### 4th International Engineering and Construction Conference

#### July 28, 2006 (8:00 a.m. to 7:00 p.m.)

at California State University, Fullerton, California

#### **SPONSOR: ASCE Los Angeles Section - International Committee**

**COSPONSOR:** California State University, Fullerton

Host: ASCE Student Chapter, California State University, Fullerton

#### **CONFERENCE THEME**

"Challenges in the completion of Civil Engineering Projects in a Global Setting-Lessons Learned and Successes Accomplished"

\*\*\*\*

#### (1) CALL FOR ABSTRACTS (GENERAL)

Abstracts are solicited on a wide range of **international and domestic** engineering or affiliated scientific projects. *Topics may include but are not limited to: Engineering* Analysis and Design; Advanced Technology, Project Management; Codes & Standards of Practice; Quality Control & Resource Constraints; Construction Engineering; Bidding & Contract Administration; Project Financing and Procurement; Risk Assessment and Management; Legal, Ethical and Cultural Issues; Environmental Impacts and Mitigation; Design/Build and/or Operate Projects, Scheduling and Project Delivery. Limit: 600 Words or less.

#### Due Date for Abstracts: November 30, 2005

(*Editor's Note: There is a possibility that the deadline has passed when you receive this Newsletter. Call the organizer if still interested despite the passed date.*) Send abstracts via e-mail to: Mr. Tim Hancuff, P.E., Program Chairman, County Sanitation Districts of Los Angeles County, 1955 Workman Mill Road, Whittier, CA 90601. E-Mail: thancuff@lacsd.org. Ph: (562) 699-7411, Ext. 1614.

Authors will be notified of acceptance or otherwise of their abstracts by December 20,2005. Full Papers, not exceeding 10 pages (12 Point, Single Space) including figures, tables, etc., are due by **March 15, 2006.** The papers are to be submitted as electronic files (MS Word) via E-Mail, on a diskette or CD-ROM, along with a hard copy. Conference proceedings will be prepared on a CD-ROM.

\*\*\*\*\*

Technical Sessions: 8:30 a.m. -12:00 Noon and 1:30 p.m. - 5:00 p.m.

Plenary Session (12:00 Noon -1:30 p.m.): Luncheon and Keynote Address

8:00 a.m. - 7:00 p.m. EXHIBITS AND POSTER SESSIONS

5:15 p.m. -7:00 p.m. RECEPTION (ALL ATTENDEES ARE WELCOME)

#### (2) STUDENT PAPER CONTEST (Two Groups)

Participation in this competition requires students be currently enrolled at an accredited university/college taking at least 6 semester units. A letter from the Dean, Department Chair or Major Professor attesting to the student status must be submitted along with the paper. Papers are to be submitted as a word or text file (MS Word preferred) via E-Mail, on a diskette or CD-ROM, along with a hard copy. Papers shall be prepared on 8.5" x 11.0" pages, including figures, tables, etc. Type shall be 12 point, single space, with 1.0 inch margin on all the 4 sides. Two groups exist for this Student Paper Contest. Winners in both groups will receive cash awards and certificates and an opportunity to present their papers at the Conference. **Due Date for both groups: January 31, 2006.** See further details on the next page.

#### **GROUPA:** Individual Student Papers based on the following! topic:

#### Global Role of Engineers in Building a Peaceful World for Humanity in the 21st Century

This group of papers may be based on a generic thought process or any case study of an ongoing or completed (within the past one year) project or research/experimental work. They should emphasize how his/her paper/project would contribute towards building a peaceful world for humanity. **This is an individual student paper and no joint authors will be allowed**. Length of full paper for this contest shall not exceed three (3) pages, including figures, tables, etc.

#### **<u>GROUP B:</u>** Student Papers based on a project or research/experimental work.

This group of papers are to be based on a project or research/experimental work performed individually or with an academic advisor/ professor or a project leader. Length of full paper for this contest shall not exceed three (10) pages, including figures, tables, etc.

Send papers via US Mail or e-mail to: Mr. Tim Hancuff, P.E., Program Chairman, County Sanitation Districts of Los Angeles County, 1955 Workman Mill Road, Whittier, CA 90601. E-Mail: thancuff@lacsd.org, Ph: (562) 699-7411, Ext. 1614.

#### REGISTRATION

Registration Fee: \$150.00 (by 7/10/06); \$175.00 (after 7/10/06) (Includes Lunch, Reception and Proceedings); Spouse/Guest accompanied by a Full Registrant: \$25.00 (Includes Lunch and Reception). Full Time Students with valid Student LD: \$15.00 (Includes Lunch and Reception).

All attendees including speakers and moderators should register for the conference.

Cancellation Policy: \$25 Processing fee before 7/10/06, \$50 before 7/28/06, No refund on or after 7/28/06.

Name of Registrant(s):
------------------------

Organization:

Address:						
Phone:	Fax:			E-Mail:		
Note: Please indicate if vegetarian meal is	s required:	🗖 Yes	🗖 No	Total Amount: \$	Check No.:	Date:

All funds should be paid in U.S. Dollars by check or money order, made payable to ASCE-LA-International Committee. Mail the fee along with this registration form to: Mr. Tim Hancuff, Program Chairman (Address given above)

**CONFERENCE SITE:** California State University at Fullerton, University Conference Center, Titan Student Union, 800 N. State College Blvd., Fullerton, California. Campus is located west of Route 57 Freeway, between Nutwood Avenue and Yorba Linda Blvd. For a campus map and directions, please log on to: www.fullerton.edu.

Accommodation: Marriott Hotel - Located adjacent to the campus within walking distance, 2701 East Nutwood Ave., Phone: (714) 738-7800. Please call and ask for special Conference Rate. Chase Suites - Located one block down from the campus at 2932 Nutwood Ave., Ph: (714) 579-7400, Ext. 12, Please ask for special Conference Rate.

Local Attractions: The university is located within driving distance to many local attractions, including but not limited to: Disneyland, California Adventures Theme Park, Knotts Berry Farm, Medieval Times, Arrowhead Pond, Angeles Stadium, Wild Bills, Hollywood and Universal Studios. Call Calstate Fullerton Associated Students, Inc., at (714) 278-2468 for discount tickets. Parking: Parking Lots A and B are located adjacent to the conference center. All day parking pass is available for \$5.00 at the yellow boxes located in the lot area.

For additional information, and to participate as Session Chairs or Moderators in the conference, please contact Dr. C.T. Bathala, P.E., F. ASCE, General Conference Chairman, Ph: 949-724-2994, FAX: 949-724-2256, E-mail: ct\_bathala@dot.ca.gov.

# **Irvine Institute of Technology**

C.V. Chelapati, Ph.D., P.E. (Civil) License Review Seminar Live Online Broadcast

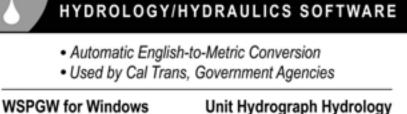
The Irvine Institute of Technology (IIT), formerly Continuing Professional Education Institute (CPEI), is proud to announce that beginning January 7, 2005 our P.E. (Civil) License Review Seminars will be offered as an online live broadcast to remote sites throughout California and Nevada. These comprehensive seminars have been offered since 1973 and attended by over 19,000 engineers.

Remote sites can be established in collaboration with large companies where there is access to a conference room or with local University classroom sites. A minimum of ten students is required to establish a site. As incentive for providing their conference rooms, companies that do so will be provided a discount on employees attending seminars.

The P.E. (Civil) seminar includes 91 hours of instruction taught by eminent engineers and practitioners in their field. Seminar fees include 6 volumes (approx. 2500 pages) of workbooks developed specifically for these seminars and updated yearly by the faculty who teach from them. All major subjects of Civil Engineering are covered including Environmental, Geotechnical, Structures, Transportation and Water Resources. In addition to the P.E. (Civil) License Review seminar we also offer seminars in Seismic Principles and Surveying, each providing 24 hours of class time and additional workbooks.

All lectures are also recorded and stored on a server. After attending the live lecture, a registrant can access the lecture at home or in the office to review portions they didn't understand or missed entirely. A broadband connection is required to view the recorded lectures.

Please contact us at 949.585.9137 or visit our website www.cpeinst.com for more info.



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### P.E. License Review Course

The RBF Consulting P.E. License Review Course for the April  $21^{st}$  and  $22^{nd}$ , 2006 professional license exam will begin on January 7, 2006 and continue for thirteen (13) Saturdays, ending on April 8, 2006. The course is taught by practicing professionals and includes several unique features:

- Course fee includes eight textbooks and over 2,000 pages of focused lecture notes and solved practice and example problems.
- Enrollment strictly limited to 30 students.
- Comprehensive coverage of all subjects addressed by the eight-hour exam as well as those covered by the California Special Survey and Seismic Portion of the exam.
- Approximately 100 hours of classroom instruction.
- Excellent course track record.
- Centrally located at the Irvine Spectrum Offices of RBF Consulting, 14725 Alton Parkway in Irvine. A pleasant atmosphere is combined with a convenient Orange County location.
- Continental breakfast provided for each session.

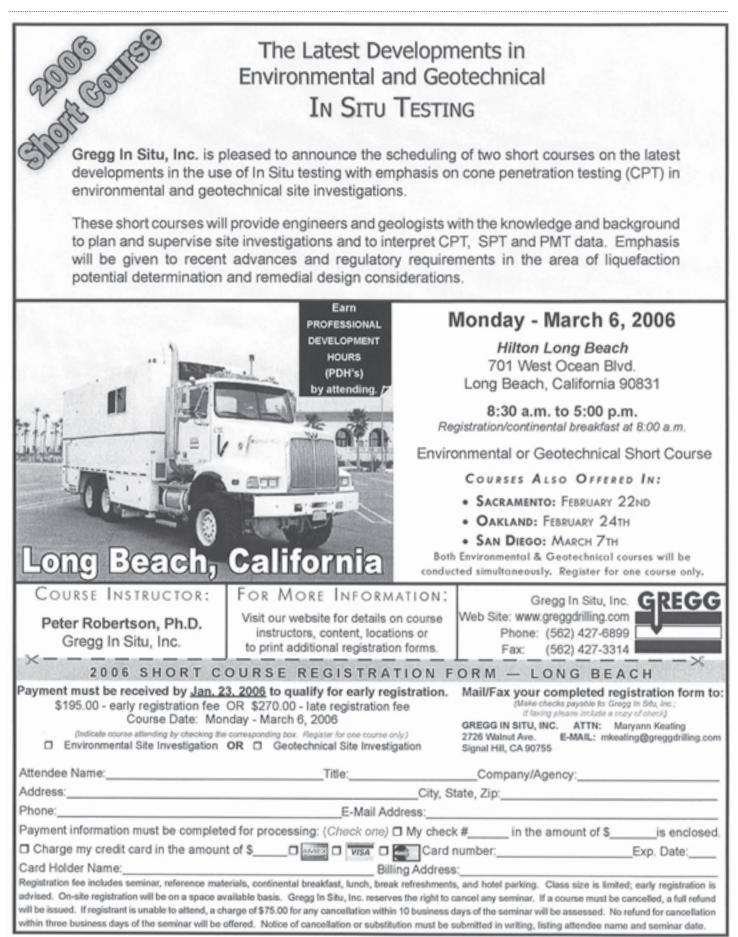
The course is designed to emphasize personalized instruction and practical applications of principles covered by the examination. The review course fee is \$1,300 and includes textbooks and instructor lecture notes. The course is offered for the April exam only and partial classes are available to returning students only at no cost. For more information please contact Ms. Debi Blake at (949) 855-7032 or via e-mail dblake@rbf.com. You may also log onto our website to review the course schedule and register at http://www.rbf.com.

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#### Senior Project Manager—Los Angeles Office

Individuals with min. 8 years experience in all aspects of project scope, including ability to breakdown scope into smaller pieces to match individual tasks with allotted hours. BSCE and California P.E. required. This management opportunity includes coordinating the work of project and design engineers, and being the main liaison between Harris & our clients. Some of the duties include:

- Directly responsible for the project schedule and budget.
- Developing detailed design concepts and complete redline design.
- Coordinating kick-off meetings and staff meetings discussing special design issues and project progress.
- Responsible for final in-house quality control review (2-4 days prior to submittal deadline).
- Coordinates with sub-consultants for outside specialty services (survey, etc.) Usually is primary contact with client (can share with project director on a case-by-case basis but should not, in general, share with subordinate staff).

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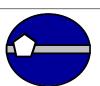
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### **N**EWSLETTER **I**NFORMATION

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Dr. Cris B. Liban, P.E. LACMTA One Gateway Plaza Mail Stop 99-17-2 Los Angeles, CA 90012 Phone (213) 922-2471 FAX (801) 457-2687 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

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

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