

Los Angeles Section

Monthly: Est. 1913

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PRESIDENT'S MESSAGE

Greg Heiertz, P.E.
Los Angeles Section President



Is the Drought Over?

Since I have been in "the water business" for all of my career, I am often asked questions like this. Unfortunately, there is not an easy answer, and I am often at a loss on how to respond. We have benefited from a greater than normal amount of rain and snow this winter. According to the Metropolitan Water District of Southern California: "Improvement in Southern California water reserves and the water-saving efforts of the

region's consumers and businesses has enabled the Southland's largest imported water provider to end its call for mandatory water restrictions." Governor Jerry Brown retracted the drought declaration made by his predecessor nearly two years ago, which led to Metropolitan's lifting of drought restrictions.

Most California reservoirs are full. The Sierra Nevada snow pack is considerably above normal. Local ground water basins are recovering after years of overdraft. Conditions in the Colorado River Basin are improving. All in all, this has been a good year for water supplies in California.

A record wet winter unfortunately is not the whole story. Southern California must cope with perpetual drought. We live in what is essentially a desert, after all. Most of the water we need for homes, industry and agriculture must be imported from distant areas that are generally soggy than ours. Bringing that water hundreds of miles across deserts and mountains required the dedication and creativity of generations of civil engineers. Maintaining the facilities these engineers built, improving them, and ultimately finding abundant new sources of pure water will require at least as much persistence and inventiveness by today's civil engineers as well as our successors. On top of the technical challenges inherent in this, today's engineers face political and environmental challenges never dreamt of by our predecessors.

The development of water supplies is inextricably intertwined with the history of our state. Political, economic and social forces have led to California having the most complex and engineering intensive water supply system in the history of the planet. As the professional heirs of the engineers who created California's water system, it is essential that we understand the forces that created it as well as its consequences for our future.

Manipulation of water supplies in southern California has roots in the days of the Spanish land grants. A communal approach to water development was the norm under Hispanic rule. The decline of Spanish and Mexican communal water rights was replaced by the rise of private, individual rights following the American takeover of California in the mid-nineteenth century the emphasis on private water rights contributed to monopolization of water supplies and a clash of rights between large landowners and relative newcomers to the state. The emergence of urbanization in the late 1800s and the ascendancy of the Progressive Era led to the creation of the first great water projects of the twentieth century, the Los Angeles aqueduct and San Francisco's Hetch Hetchy project. Control of state and federal government by the Progressives led to the creation of large government

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A Tapestry of Topics

The issue of water in California has been one of the most contentious for any region. While we seamlessly enjoy the privileges of having this resource on a daily basis, we should not forget the preciousness of this resource and the calamity its loss would create if we do not protect it. Our Section President Greg Heiertz, P.E. put well the context of this framework. As a water professional, he is able to succinctly dissect the issues in his short article and make us once more aware of the nuances of a water-dependent region like Southern California.

In this issue, we celebrate with the winners of our Fifth Annual ASCE Region 9 Awards Program. We congratulate these winners for making a difference in their specific fields or for creating significant infrastructures that actually make a difference in the lives of others who use those infrastructures. The inspirations that these winners bring make us strive more for future excellence. We need more of these kinds of stories in our lives.

Finally, our Legislative Program representatives provide an overview of their thoughts on two recent legislative actions. These are the ASCE's position on Revisions to the Professional Engineers Act (Senate Bill 692) to include certain "title act" licenses to become "practice act" licenses. The article also contains ASCE's position on Senate Bill 907 to create an 11-member Master Plan for Infrastructure Financing and Development Commission. More details on ASCE's position in these pieces of legislation inside.

As you read through these articles, you become intrigued, inspired and hopefully called to action to do more for our profession. There are significant and unique opportunities for involvement. Each one of them is waiting for you to discover. This issue is a tapestry of topics, but worthwhile to think about each one of them.

Enjoy this issue of your newsletter!

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

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 Jul./Aug. 2011 issue is June 1, 2011; copy deadline for Sept. 2011 issue is Aug. 1, 2011.

The ASCE Region 9 Awards Program

*By Kathy Haynes, Region 9 Governor, Awards Committee Chair
Fifth Annual Region 9 Awards Program*

The ASCE Region 9 Awards Program was held on March 9, 2011 in Sacramento. We were honored to have the Society's President-Elect, Andy Herrmann, help congratulate the award recipients. The 5th annual awards dinner recognized excellence in engineering at both the project and individual levels.

Project Awards recognize outstanding civil engineering projects for projects that have received an award from one of the four ASCE Sections in Region 9 (Sacramento, San Francisco, Los Angeles, and San Diego) during the award year.

The ASCE Region 9 awards committee would like to recognize this year's awards that were selected from a strong pool of applicants.

Project Award Recipients:

- **Project of the Year – Metro Gold Line Eastside Extension**
L.A. County Metropolitan Transportation Authority (LACMTA), AECOM
- **Outstanding Sustainable Technology Project – Toland Landfill Biosolids Drying and Electric Generation Facility**
Ventura Regional Sanitation District
- **Outstanding Architectural Engineering Project – Hollenbeck Police Station Project**
City of L.A., AC Martin Partners, Inc
- **Outstanding Water Project – Middle River Intake Project**
Contra Costa Water District, Carollo Engineers, Inc
- **Outstanding Small Water Project – El Dorado Irrigation District Flume 51**
El Dorado Irrigation District, Carlton Engineering, Inc
- **Outstanding Bikeway & Trails Project – Bayshore Bikeway Western Salt Segment**
City of San Diego, Kimley-Horn and Associates, Inc
- **Outstanding Bridge Project – Folsom Bridge**
City of Folsom, CH2M Hill/URS Joint Venture
- **Outstanding Small Transportation Project – I-5 HOV/Loma Santa Fe Drive Interchange**
Caltrans & City of Solana Beach, Caltrans & Dokken Engineering
- **Outstanding Environmental Project – Caspar Creek Labyrinth Weir Fish Passage Restoration Project**
CAL FIRE, Winzler & Kelly
- **Outstanding Geotechnical Project – Freeport Regional Water Project - Intake Facilities**
Freeport Regional Water Authority, CH2M Hill
- **Outstanding Energy Project – Trans Bay Cable Converter Stations**
Trans Bay Cable, LLC, Carlton Engineering, Inc

continued next page

- **Outstanding Small Project – Cal Park Hill Tunnel Rehabilitation & Multi-Use Pathway Project**
Marin County Department of Public Works & Sonoma Marin Area Rail Transit District (SMART), AECOM
- **Outstanding Construction Project – San Francisco - Oakland Bay Bridge Yerba Buena Island Detour**
Caltrans Toll Bridge Program Oversight Committee, CALTRANS, T.Y. Lin, Carol Light, Moffatt & Nichol, TRC, Imbsen, Parsons Brinkerhoff
- **Outstanding Historical Renovation – Globe Mills**
GMA Investors, LP, Miyamoto International, Inc
- **Outstanding Flood Management – Feather River Setback Levee**
Three Rivers Levee Improvement Authority, GEI Consultants, Inc
- **Outstanding Community Involvement Project – Irvine Ranch Outdoor Education Center**
Boy Scouts of America, Orange County, RBF, Hunsaker & Associates, Fuscoe Engineering, Penco Engineering, Adams-Streeter Civil Engineers, Stantec Consulting, HNTB Corporation, Leighton & Associates, NMG Geotechnical, GMU Geotechnical, STB Structural Engineers, Patrell Engineering Group, Robinson Associates Consulting Engineers
- **Outstanding Park & Recreation Project – Stevens Creek Corridor Park**
City of Cupertino, HNTB Corporation
- **Outstanding Water Conveyance Project – San Vicente Pumping Facilities**
San Diego County Water Authority, Black & Veatch

Individual Award Recipients:

All ASCE members in Region 9 are eligible for consideration for individual awards.

- **Outstanding Civil Engineer in the Private Sector – Mark Creveling**
- **Outstanding Civil Engineer in the Public Sector – Marlon Calderon**
- **Excellence in Journalism – Lois Henry**
- **Outstanding Civil Engineer in Community Service – Terry Dooley**
- **Outstanding Civil Engineering Students – Andrew Langilier, Shannan Nyberg**
- **Lifetime Achievement Award – Joe Countryman**
- **Outstanding ASCE Life Member – Keith Gallistel**
- **Outstanding Civil Engineering Faculty Advisor – Dr. Janusz Supernak**
- **Outstanding ASCE Practitioner Advisor – Bill Flores**
- **Outstanding Younger Civil Engineer – Jessica Prince**
- **Outstanding ASCE Section Officer – Larry Smith**
- **Outstanding ASCE Branch Officer – John Kilps**
- **Outstanding ASCE Younger Member Officer – Kimberly Brown**
- **Outstanding Engineer in Legislative Activities – Julia Moye**
- **Legislator of the Year – Senator Darrell Steinberg**

Awards Committee

Special thanks to the Awards committee:

Kathy Haynes, Chair, Governor / Secretary – San Diego Section
Jennifer Epp, Co-Chair, Past Awards Committee Chair, Los Angeles Section
Anthony Cinquini, President, San Francisco Section
Kent Sasaki, San Francisco Section
Dean Gipson, San Diego Section
Phil Kern, San Diego Section
Larry Lewis, Los Angeles Section
Herendira Molina, Los Angeles Section
Thor Larsen, Sacramento Section
Greg Zeiss, Sacramento Section

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Thanks to the generous Awards Dinner Sponsors:

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Photos from the event can be viewed and downloaded from the Region 9 web page: <http://www.asce.org/region9/awards/> follow the link to the photos.

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L.A. Section web site at: www.ascelasection.org

P R E S I D E N T ' S M E S S A G E

continued

bureaucracies such as the Bureau of Reclamation and the Army Corps of Engineers which dominated the development of water resources in the middle of the last century.

The environmental movement, concern over uncontrolled growth and the rise new water rights doctrines put water supply development on the defensive by the late 1960s. Battles over the Peripheral Canal and Mono Lake, concern for fragile wetlands, and challenges to existing dams have been the result. Moreover, there is an increasing recognition of the need to address environmental crises related to development of water supplies. These are issues that must be faced by engineers and policy makers alike.

Despite Sierra Nevada snowpack conditions far above normal, southern California will not receive its full supply from Northern California this year because of environmental problems and pumping restrictions in the Sacramento-San Joaquin Delta. A comprehensive package of water system/ecosystem improvements is necessary in the Delta in order to improve long-term water reliability for southern California.

Water remains one of the main engines of future economic growth in California, and our future depends on the wise and sustainable development of additional water supplies through conservation, transfers from agriculture to urban use, and reform of the market for water rights.

ASCE Legislative Update

By Richard Markuson

Committee Approves Revision to PE Act

The Senate Business and Professions Committee approved a change to California's engineer licensure law. The committee approved SB 692 on a 5-0 vote. In addition to civil, electrical and mechanical engineering, SB 692 establishes agricultural, chemical, control system, fire protection, industrial, metallurgical, nuclear, petroleum, and traffic engineering as "practice acts" under the Professional Engineers Act (as opposed to "title acts") and generally incorporates these nine additional practice act disciplines into the provisions relating to the three existing practice acts. The bill permits all branches to overlap except into civil, electrical and mechanical engineering.

The Legislature has grappled for years with California "unique" licensure scheme of title acts, practice acts and title authorities and many have contrasted it to states with a generic PE scheme. Four branches (corrosion, quality, safety and manufacturing) were phased out several years ago and an earlier bill would have phased out agricultural, industrial and metallurgical engineering because of their low numbers.

FY 2009-2010 Licensing Statistics

Type	Issued	Renewed	Total Active Licenses
Agricultural	0	79	193
Civil	1,867	27,120	50,497
Chemical	71	1,032	1,954
Control System	11	499	1,416
Electrical	398	3,812	8,916
Fire Protection	29	367	760
Industrial	5	116	467
Mechanical	478	7,395	14,633
Metallurgical	6	174	277
Nuclear	2	392	613
Petroleum	4	207	389
Traffic	33	733	512

SB 692 is opposed by ASCE, ACEC and PECG for several reasons. PECG notes: "Practice Act licenses...should only be created if they are needed for statutory purposes...converting Title Act registrants, as proposed in SB 692, is [not] necessary to safeguard life, health, property and public welfare." ACEC argues "the practice acts created by SB 692 would overlap with one another and with existing practice acts, confuse consumers, force the use on projects of more engineers with different types of licenses, add to consumer costs and make California's licensing laws even more disconnected than they already are with the licensing laws in other states (which would make it more difficult for California's engineers to provide services for projects located in other states)." ASCE argues that the limited number of practitioners in these branches does not justify the allocation of resources to create and enforce new practice boundaries.

The bill will now be heard in the Appropriations committee where the costs of the measure will be considered.

Infrastructure Planning Measure Advances

ASCE supported Senate Bill 907 creates the 11-member Master Plan for Infrastructure Financing and Development Commission. By December 1, 2013, the Commission must submit a final report to the Governor and the Legislature that contains a long-term plan and strategy for the state's infrastructure needs and a prioritized plan to meet those needs. The Commission must also submit periodic progress reports.

The Commission dissolves 30 days after it issues its final report. Further, the bill's provisions automatically terminate when the Commission dissolves, unless legislators extend the date.

ASCE hopes to have a civil engineer with infrastructure planning expertise included on the panel. The bill now goes to the Budget Committee to be considered for funding.

For more information on ASCE's legislative program contact Dolores Ventura P.E. or Richard Markuson.

Post-Disaster Teams

"...the Society is the single best organization to carry out this type of work for our nation.", Hon. Sherwood Boehlert, M.C. (Ret.), Former Chair, House Science Committee

ASCE has a long history of participating in and conducting engineering studies of national significance, one that dates back to the Johnstown Flood in the late 1800s. ASCE has participated in more than a dozen such assessments in the last decade. The reports published by these study teams have been widely recognized within the professional community for their contributions to our understanding of civil engineering practice and public safety and welfare. Such studies are an important part of the Society's continuous effort to advance public safety and engineering practice, and contribute to the understanding of how to make engineered structures safer in the event of both natural disasters and man-made events.

Learn more about ASCE Assessments and corresponding reports at www.asce.org. Available now are the following:

- New Zealand - Earthquake, September 23, 2010
- Chile - Earthquake and Tsunami, February 27, 2010
- Haiti - Earthquake, January 12, 2010
- Samoan Islands - Earthquake and Tsunami, September 29, 2009
- Galveston, Texas - Hurricane Ike, September 13, 2008
- Sichuan, China - Earthquake, May 2008
- New Orleans/Southeast Louisiana - Hurricane Katrina, August 29, 2005
- Post-Katrina Levee Assessment Team
- External Review Panel
- Boston, Massachusetts - Big Dig Collapse, July 10, 2006
- Sumatra - Earthquake and Tsunami, December 26, 2004
- September 11, 2001, World Trade Center Findings
- September 11, 2001, Pentagon Building Performance Report.

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

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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 Cobein, 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

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AMERICAN SOCIETY OF CIVIL ENGINEERS
International Committee, Los Angeles Section

7th International Engineering and Construction Conference (IECC'7)

February 13-15, 2012

Website: www.a-tech.hk/IECC7/index.html

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**CONFERENCE THEME
“Green Infrastructure System”**

**VENUE
Brisbane, Australia**

The ASCE Los Angeles Section International Committee is organizing its 7th International Engineering and Construction Conference (IECC'7), jointly with the Centre of Excellence in Engineered Fibre Composites (CEEFC), University of Southern Queensland (USQ), Australia. The conference will be held during February 13-15, 2012, in Brisbane, Australia.

Conference Objectives

The 7th International Engineering and Construction Conference (IECC'7) is a multidisciplinary forum with several symposia covering a wide range of engineering areas with emphasis on engineering design and construction. The goal of this conference is to enhance the lines of communication between researchers and technical professionals to exchange innovative research and technological advancements. The conference theme focuses on “Green Infrastructure System”. This theme incorporates innovative building systems in which affordable green construction, materials and system are pronounced. The conference will cover most of the subjects associated with the above mentioned vision. The objective of the conference is to focus on various topics related to green infrastructure development which incorporates innovative building systems, materials and design. The previous objectives cannot be separated from the wider objectives of eco-villages, city planning, green materials and green construction management on the community level. This would also require successful sustainability and energy efficiency code development. The conference will also deal with carbon finance in construction, renewable energy in construction, environmentally compatible engineering in design and construction, assessment and monitoring of long-term performance, recyclable construction materials and systems, and other state-of-the art papers related to built environment and energy conservation are also encouraged.

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**
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Includes: Course Reference Materials, Certificate
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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

ASCE Announces 2011 Class of Distinguished Members

Distinguished Membership is the highest recognition the Society may confer, second only to the title ASCE President. It is reserved for members of the Society who have attained the grade of Member or Fellow and who demonstrate acknowledged eminence in some branch of engineering or in its related arts and sciences. The 2011 Distinguished Members are:

Jacobo Bielak, Ph.D., P.E., Dist.M.ASCE, NAE
John E. Breen, Ph.D., P.E., Dist.M.ASCE, NAE
Ross B. Corotis, Ph.D., P.E., S.E., Dist.M.ASCE, NAE
Robert A. Dalrymple, Ph.D., P.E., DCE, Dist.M.ASCE, NAE
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Shamsher Prakash, Ph.D., P.E., Dist.M.ASCE

The Class of 2011 will be formally inducted during the 141st Annual Civil Engineering Conference in Memphis, Tenn. on October 20, 2011. Since 1852, only 615 individuals have been elected to Distinguished Membership.

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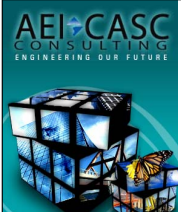


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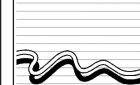


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