



### Inside This Issue

President's Message 1,2

Board of Directors 2  
Advertising Rates  
Membership Information

Board Member Bios 3

Famous Civil Engineer 4

Company Spotlight 5  
Calendar of Events  
Platinum Sponsor

America's Report Card 6, 7

Opal Winner 7

Leadership in Energy 8,9,11  
and Environmental design

May Meeting Recap 9

Sponsorship 10

Call for Papers 11

Professional Services 11,12,13

Meeting Calendar 14

## President's Message



### Award Nominations

It's that time again, the ASCE San Bernardino & Riverside Counties Branch project and engineer of the year awards are back.

Each June, the Branch collects award nominations from the members for outstanding individual and project achievements. This year the Branch is offering three individual award and two project award categories. The three individual categories are Outstanding Civil Engineer in the

Private Field, Outstanding Civil Engineer in the Government Field and Outstanding Young Civil Engineer. The two project award categories are Outstanding Civil Engineering Project Award and Civil Engineering Project Improvement Award.

The project awards are a great way to publicize the importance and numerous benefits your project has provided to society. The two categories allow for nomination of new construction projects as well as projects that are an improvement to existing infrastructure.

Each City, County and/or Agency has a recent project that provides a much needed benefit to its residents. These

awards bring the well deserved attention to these agencies and the engineers responsible for the projects construction.

The individual awards are to recognize those who have displayed exemplary professional conduct, reputation, achievement, and contribution to the image of the civil engineer. The individual awards are a great acknowledgement to those individuals that go the extra mile within their personal duties.

In addition, many individuals have provided exemplary leadership and dedication to the civil engineering profession by volunteering their time to the bettering of our profession.

All nomination forms

*(continued on page 2)*

## President's Message

(cont from page 1)

are due into the Branch by June 30, 2008, so time is running out. Fortunately, the award forms do not take an extensive effort to prepare. Too often in today's society the good deeds go unrecognized. Too many of us focus on the negative aspects in each situation. We are so quick to point out what was wrong with something rather than what was right.

In the past, the Branch has had very few nominations and sometimes none at all for these award categories.

Make this year different from those years past. Spend one hour of your time preparing the nomination form for that person or project that deserves the recognition.

Thank you for your continued support and commitment to ASCE.

Sincerely,  
*Terry Renner*  
Branch President



**Kick back,  
relax and  
enjoy**

## Membership Information

### Type of Membership and Annual Dues (National)

Student:	Free
Associate Member:	\$50 year of baccalaureate degree and first year after, then incremental increases to \$205 over five years
Member:	\$205 annually      Affiliate: \$205 annually

Section (Branch) Dues \$45/year

1. National ASCE Student Membership is now FREE! Those who have chapters or clubs still must be a member of them before joining National. Log onto [www.asce.org/membership/howtojoin.cfm](http://www.asce.org/membership/howtojoin.cfm) fill out the short application and instantly become a member of ASCE. Or, Call 1-800-548-ASCE (2723)

2. Online Membership renewal available, go to [www.asce.org/renewal/inforenwal.cfm](http://www.asce.org/renewal/inforenwal.cfm). You need your membership number, all e-payments must be made with a major credit card. An e-receipt is transmitted to the member upon completion of the transaction.

Publisher: San Bernardino-Riverside Counties Branch  
American Society of Civil Engineers  
Design and Published by Shirley Kerr (Newsletter Design Specialist) (951) 688-8046.  
Identification Statement: ASCE San Bernardino & Riverside Counties Branch News is published periodically by the San Bernardino & Riverside Counties Branch, American Society of Civil Engineers.

Annual subscription rate: San Bernardino & Riverside Counties Branch of ASCE members \$45 (included in dues).

POSTMASTER: Address Correction Requested. Return Postage Guaranteed. Send mail to Editor at address shown at right.

### Advertising Rates

Approximate number of mailings: 600 per month.

Professional Directory (Business Card Ads)	Per Card (10 issues)	\$250
Display Ads	Full Page (per issue)	\$235
	One Half Page (per issue)	\$125
	Quarter Page (per issue)	\$75

Advertising Information: To place ads, contact the editor. Payments are due 30 days from the date of publication. All copy must be received by the Editor by the first Friday of the month prior to publishing.

## 2007-2008 Board of Directors

### President

Terry Renner, PE  
(951) 680-0440  
[trenner@tkeengineering.com](mailto:trenner@tkeengineering.com)

### President Elect

Timothy Wilson, PE  
(951) 658-7463  
[GTSAssoc@aol.com](mailto:GTSAssoc@aol.com)

### Vice President

Brian D. Wolfe, PE  
(909) 989-9789  
[bwolfe@westlandgroup.net](mailto:bwolfe@westlandgroup.net)

### Treasurer

J. Scott Petersen  
(951) 352-4100 Ext 206  
[spetersen@adams-streeter.com](mailto:spetersen@adams-streeter.com)

### Secretary

Lauren Popescu, PE  
(909) 350-7663  
[lpopescu@fontana.org](mailto:lpopescu@fontana.org)

### Newsletter Editor

Rita Escobar  
[rescobar@hfinc.com](mailto:rescobar@hfinc.com)  
(909) 919-7800

### Past President

Christopher Turnage, PE  
(909) 980-1982  
[cturnage@assoc-eng.com](mailto:cturnage@assoc-eng.com)

## Committees

### Cal Poly Pomona Student Advisor

Lauren Popescu, PE  
(909) 350-7663  
[lpopescu@fontana.org](mailto:lpopescu@fontana.org)

### YMF President

Kamyar Razavi Ghods, PE  
(951) 788-9142  
[krghods@co.riverside.ca.us](mailto:krghods@co.riverside.ca.us)

### Temecula/Murrieta Committee

Ron Moreno, PE, LS  
(909) 676-8042  
[RMORENO@rbf.com](mailto:RMORENO@rbf.com)

### Stormwater Committee

Bill Flores, CPESC, PE  
(951) 320-7311  
[Bill.flores@hdrinc.com](mailto:Bill.flores@hdrinc.com)

### Assistant Newsletter Editor

Matthew Addington, P.E., P.L.S.  
(909) 477-2710 Ext 4202  
[matthew.addington@ci.rancho Cucamonga.ca.us](mailto:matthew.addington@ci.rancho Cucamonga.ca.us)

## Biographies for 2008 – 2009 Board

### Tim Wilson, PE - President

Tim is a Registered Civil Engineer and Licensed Architect in the State of California and graduate of Cal Poly, San Luis Obispo in 1976. He has worked in Public Works for several local municipal agencies, private engineers and architects until going into private practice with GTS Associates Inc., for more than 30 years. He currently is employed by the City of Redlands. He is Past President of Riverside/San Bernardino Branch APWA in 2001 and President of Chapter 21 of CSPE in 1999 and 1993.

### Brian Wolfe, PE - President-Elect

Brian is a Registered Civil Engineer for the Westland Group, Inc. in Rancho Cucamonga. His typical engineering duties include the design, project management, and construction support of water, sewer, and grading plans throughout the Inland Empire. Brian earned his Bachelor of Science in Civil Engineering from Cal Poly, Pomona where he also works as part-time faculty.

### J. Scott Petersen - Vice President

Scott is an Associate Engineer in the employ of Adams Streeter Civil Engineers, Inc., a private consulting engineering firm performing land development and public works services. He received his Bachelor of Science degree in Civil Engineering from Cal Poly, Pomona in 2004. He also serves the San Bernardino & Riverside Counties Branch Younger Member Forum (YMF) as Technical Tour Advisor.

### Lauren Popescu, PE - Treasurer

Lauren is a Registered Civil Engineer with the City of Fontana, Department of Engineering Traffic Section. Lauren received his Bachelors of Science degree in Civil Engineering from California State University, Los Angeles in 2002. In 2004, he helped start the San Bernardino & Riverside Counties Branch Younger Member Forum (YMF), where he served as the first YMF President.

### Rita Escobar - Secretary

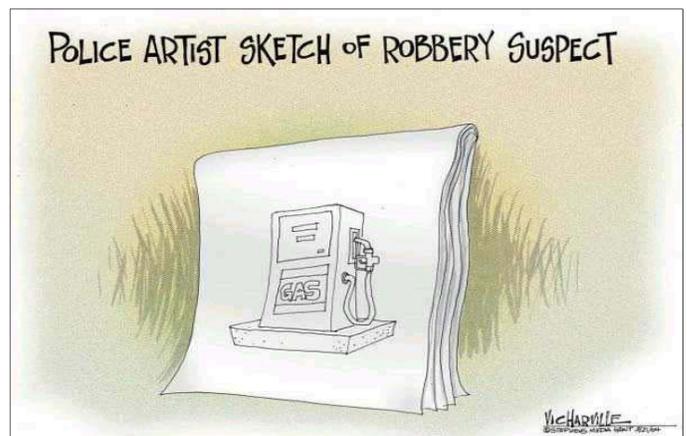
Rita is an engineer in training (EIT) and obtained her Bachelors of Science degree in Civil Engineering from Cal Poly, Pomona. Currently she is a project engineer in the Rancho Cucamonga office of Hall & Foreman, Inc. where she is responsible for the design preparation of public works projects including storm drain plans, street plans, bike trail plans, and drainage reports.

### Matthew Addington, PE / PLS - Newsletter Editor

Matthew is a Professional Engineer and Professional Land Surveyor with the City of Rancho Cucamonga. He leads the Grading Division in the Building and Safety Department. Prior to joining the City of Rancho Cucamonga, he worked over 25 years in private practice. He earned his Bachelor of Science in Civil Engineering from Cal Poly, Pomona and a Certificate in Project Management from University of California, Riverside Extension.

### Terry Renner, PE - Past-President

Terry Renner is a Registered Civil Engineer, Project Manager and Vice President with TKE Engineering, Inc. He is currently managing the design and construction processes for street, water system, sewer, and storm drain facility improvements. He obtained a Bachelors of Science degree in Civil Engineering from Cal State Poly, Pomona.



## Famous Civil Engineer's June 1886



David Barnard Steinman (1886-1960)

For 40 years New York native David Barnard Steinman was the leading proponent of long-span suspension bridges. During his career, Steinman and his associates were responsible for the design and construction of over 400 bridges, including the Henry Hudson Bridge in New York, the Mackinac Bridge in Michigan, the Deer Isle Bridge in Maine, and the St. Johns Bridge in Oregon.

David Barnard Steinman was born June 11, 1886 in the shadow of the Brooklyn Bridge. A mathematical prodigy, Steinman worked his way through City College, graduating summa cum laude in 1906. Immediately there-

after he attended Columbia University and completed three degrees culminating with a PhD in Civil Engineering. Steinman's thesis, entitled *The Design of the Henry Hudson Memorial Bridge as a Steel Arch*, would become reality 25 years later.

In 1920 Steinman met Holton Robinson, engineer of the Williamsburg Bridge, and the two formed a company that would design and construct hundreds of bridges until Robinson's death in 1945. Two early projects included the Florianopolis Bridge (1926), the largest span bridge in South America, and the Carquinez Strait Bridge (1927) 25 miles northeast of San Francisco, the second largest cantilever bridge in the United States.

It was during this formative period with Robinson that Steinman, as president of the American Association of Engineers, began to campaign for more stringent educational and ethical standards within the engineering profession. His concern for professionalism continued when he founded the National Society of Professional Engineers in 1934 and served as the society's first President.

By the mid-1930s Steinman had established himself as one of the premier bridge builders of his generation, but his creations were eclipsed by Ammann's George Washington Bridge (1931) and Joseph Strauss's Golden Gate Bridge (1937). In response Steinman made plans to

seize the span record by building the "Liberty Bridge" across New York Harbor. But with the collapse of the Tacoma Narrows Bridge (1940) the future of long-span suspension bridges appeared

***"A bridge is a poem stretched across a river, a symphony of stone and steel."***

in jeopardy.

The disaster prompted Steinman to publish a series of articles on the aerodynamic stability of bridge design. His theoretical aptitude led to the Mackinac Bridge project that would connect the Upper and Lower Peninsulas of Michigan.

Steinman's design innovations, such as open-grid roadways and stiffened trusses raised the theoretical critical wind velocity of the new design to 642 miles per hour.

## Company Spotlight

### Soil Retention

2501 State Street  
 Carlsbad, CA 92008  
 Phone: 800-346-7995  
 Fax: 760-966-6099  
 www.soilretention.com

Manufacturing Facility:  
 1965 Watson Rd.  
 Romoland, CA 92585

Office established in 1987  
 Employees: 15 office, 20 manufacturing plant,  
 and 25 field personnel.



Jan Erik Jansson, founder and president of Soil Retention

Soil Retention manufactures, distributes, designs, and installs their patented and trademarked line of Plantable concrete systems®. The products include Verdura® (a fully plantable retaining wall system), Candura® (a near vertical retaining wall system), Drivable Grass® (a permeable, flexible, and plantable pavement system), and Enviroflex® (a permeable and plantable scour protection system). Due to national demand, Drivable Grass® is now produced in Florida, Indiana, New Jersey, and California.

Soil Retention Systems, Inc. recently installed a large (30' high x 1300' long) Verdura® retaining wall system on the west side of the 15 freeway at Indian Truck Trail in Corona for Fieldstone. The 36,000 ft<sup>2</sup> wall was installed in a record time of 14 working days. Jan Erik Jansson, president and founder of Soil Retention, has developed a solid reputation for unique product development, highly efficient green building products, and doing exactly what he says.

The state of the art manufacturing plant is located in Romoland, Riverside County. The sales office is located in Carlsbad, San Diego County. Please visit our website at [www.soilretention.com](http://www.soilretention.com) or give us a call at 800-346-7995.



## ASCE Events

San Bernardino and Riverside Counties  
 Branch of L.A. Section

<u>Date</u>	<u>Event</u>	<u>Time</u>	<u>Location</u>
<b>June -08</b>			
21	Perris Valley Skydiving	All Day	Perris Valley
25	ASCE Luncheon	11:30 am	San Bernardino
<b>July -08</b>			
23	ASCE Luncheon	11:30 am	Riverside
<b>August -08</b>			
	ASCE Luncheon	dark	enjoy your summer
<b>September -08</b>			
10	Stormwater Dinner Current water quality issues	6:00 pm	Ontario



Thanks for Supporting ASCE as a  
**Platinum Sponsor**

**HDR ONE COMPANY | Many Solutions**  
 2280 Market Street | Suite 100 | Riverside, CA | 92501  
 Main: 951.320.7300 | Fax: 951.320.7301



ONE COMPANY | Many Solutions

## Report Card for America's Infrastructure

**RAISING THE GRADES:**  
Small Steps for **Big Improvements** in America's Failing Infrastructure  
**AN ACTION PLAN FOR THE 110TH CONGRESS**

### Updated for 2008

ASCE's 2005 Report Card for America's Infrastructure assessed the condition and capacity of our nation's public works with an overall grade of D. ASCE estimates that \$1.6 trillion is needed over a five-year period to bring the nation's infrastructure to good condition. While long term solutions are needed, in the short term, small steps can be taken by the 110th Congress to improve our nation's failing infrastructure.

### The Action Plan So Far?

Over the last year, Congress has worked to achieve the goals set by the Infrastructure Action Plan. Among the completed successes:

- SAFETEA-LU funding guarantees
- Small Watershed Dam funding
- Water Resources Development Act were all completed.

### Still in process

- National Infrastructure Improvement Act
- FAA Reauthorization
- the Water Quality Financing Act, and the
- Dam Rehabilitation and Repair Act

These successes are admirable and represent significant improvements to our nation's infrastructure, but a great deal of work remains. Use this updated Infrastructure Action Plan as a status report and a checklist for this year's work.

### Action Steps

#### *National Infrastructure*

The House must enact the National Infrastructure Improvement Act to establish the National Commission on Infrastructure of the United States. Additionally, Congress must enact the National Infrastructure Bank Act to finance infrastructure projects.

The Commission would study the present condition of the nation's various infrastructure sys-

tems and report to Congress by 2009 on the capacity of our infrastructure to support the national economy, the age of the systems and possible methods to finance improvements. The National Infrastructure Bank Act would establish an independent entity of the federal government to provide funding for qualified infrastructure projects.

#### *Aviation*

Congress must reauthorize funding for the Airport and Airway Trust Fund and enact an increase in user fees as necessary for continued funding of the Airport Improvement Program.

The National Plan of Integrated Airport Systems estimates that over the next five years (2005-2009) \$39.5 billion will be needed to meet the infrastructure demands of all segments of civil aviation. The FAA estimates that commercial airlines will carry a billion passengers annually within ten years. More immediately, in 2007 inadequate infrastructure contributed to record delays and cancellations. The current funding authority has been extended, but with the projected increase in passenger traffic, airports are at risk for seasonal and peak-period delays.

#### *Bridges, Roads & Transit*

Congress must fully fund surface transportation programs authorized under SAFETEA-LU.

Congress must use all funds that accumulate in the Highway Trust Fund to invest in the nation's surface transportation program and fix the shortfall in the Trust Fund.

Congress must enact the National Highway System Bridge Reconstruction Initiative to repair and replace aging bridges.

Poor road conditions cost U.S. motorists \$67 billion a year in repairs and operating costs – \$333 per motorist. Americans spend 4.2 billion hours a year stuck in traffic, at a cost of \$78.2 billion a year to the economy. At the same time, transit ridership has grown at a faster pace than highway use. Total federal spending of approximately \$60 billion annually is well below the \$155.5 billion needed annually to improve surface transportation infrastructure conditions nationally. Between 2003 and 2007, the

*(continued on page 7)*

## Report Card for America's Infrastructure

(continued from page 6)

percentage of the nation's 599,893 bridges rated structurally deficient or functionally obsolete decreased slightly from 27.1% to 25.59%.

### **Brownfields**

Congress must reauthorize the Brownfields Rejuvenation and Environmental Restoration Act of 2002 in order to provide continued federal funding for the redevelopment of brownfields sites.

According to the U.S. Conference of Mayors, 172 cities estimated that they collectively have more than 23,810 brownfields sites, with the average size of a brownfield site being between five and 15 acres. Also, 158 cities collectively estimated that their brownfield properties comprised 96,039 acres of land, representing potential new jobs and land tax revenue.

### **Dams & Levees**

The Senate must enact the Dam Rehabilitation and Repair Act to address the most critical non-federal public dams.

Congress must enact a national levee safety program, including a nationwide inventory of levees and mandatory inspection requirements.

State dam safety officials estimate that \$10 billion is needed to repair the most critical dams over the next 12 years. Also, state dam safety programs have identified more than 3,300 unsafe or deficient dams, many of which are susceptible to large flood events or earthquakes.

The U.S. Army Corps of Engineers reported in early 2007 that nearly 150 U.S. levees pose an unacceptable risk of failing in a major flood, mainly due to poor maintenance. The nation cannot afford to wait for another flooding catastrophe like the one that followed Hurricane Katrina in 2005.

### **Drinking Water & Wastewater**

Congress must enact the Water Quality Financing Act of 2007 to provide vitally needed federal aid through the State Revolving Loan Fund (CWSRF) program.

Congress must authorize \$1 billion in annual

funding for the Safe Drinking Water Act State Revolving Loan Fund (DWSRF).

The EPA estimates that nearly \$1 trillion is needed in critical drinking water and wastewater investments over the next two decades. At risk are the gains that have been made in cleaning up the nation's rivers, lakes, and streams since the enactment of the Clean Water Act in 1972.

### **Inland Waterways**

Congress must enact a Water Resources Development Act (WRDA) that requires a more comprehensive approach to water resources projects constructed by the U.S. Army Corps of Engineers.

Congress must ensure the integrity of the Inland Waterways Trust Fund. Of the 257 locks on the more than 12,000 miles of inland waterways operated by the U.S. Army Corps of Engineers, nearly 50 percent are functionally obsolete. By 2020, that number will increase to 80 percent. The cost to replace the present system of locks is more than \$125 billion.



the Outstanding Civil Engineering Achievement for 2008.

Using a variety of innovative techniques, the joint project of the states of Virginia and Maryland and the District of Columbia replaces an inadequate, aging 47-year-old span, helping to relieve a major bottleneck for commuters on the busy Capital Beltway, Interstate 495. The OCEA winner was announced at the Society's premiere black-tie event, the OPAL Awards Gala, held Wednesday, April 30, in Arlington, Va., where the 2008 Outstanding Projects and Leaders honorees and other major award-winners were saluted.

In a tough field that included impressive engineering projects in India, California and Washington state, an all-new Woodrow Wilson Bridge serving the Washington, D.C., area has been selected ASCE's winner of

## Leadership in Energy and Environmental Design

**The Leadership in Energy and Environmental Design (LEED) Green Building Rating System**, developed by the U.S. Green Building Council (USGBC), provides a suite of standards for environmentally sustainable construction. Since its inception in 1998, LEED has grown to encompass over 14,000 projects in 50 US States and 30 countries covering 1.062 billion square feet (99 km<sup>2</sup>) of development area. The hallmark of LEED is that it is an open and transparent process where the technical criteria proposed by the LEED committees are publicly reviewed for approval by the more than 10,000 membership organizations that currently constitute the USGBC.

Individuals recognized for their knowledge of the LEED rating system are permitted to use the LEED Accredited Professional (AP) acronym after their name, indicating they have passed the accreditation exam given by the USGBC.

LEED began its development in 1994 spearheaded by Natural Resources Defense Council (NRDC) senior scientist Robert K. Watson who, as founding chairman of the LEED Steering Committee until 2006, led a broad-based consensus process which included non-profit organizations, government agencies, architects, engineers, developers, builders, product manufacturers and other industry leaders. Early LEED committee members also included USGBC co-founder Mike Italiano, architects Bill Reed and Sandy Mendler, builder Gerard Heiber and engineer Richard Bourne. As interest in LEED grew, in 1996, engineers Tom Paladino and Lynn Barker co-chaired the newly formed LEED technical committee.

From 1994 to 2006, LEED grew from one standard for new construction to a comprehensive system of six interrelated standards covering all aspects of the development and construction process. LEED also has grown from six volunteers on one committee to over 200 volunteers on nearly 20 committees and nearly 150 professional staff.

LEED was created to accomplish the following:

- Define "green building" by establishing a common standard of measurement
- Promote integrated, whole-building design practices
- Recognize environmental leadership in the

building industry

- Stimulate green competition
- Raise consumer awareness of green building benefits
- Transform the building market

Green Building Council members, representing every sector of the building industry, developed and continue to refine LEED. The rating system addresses six major areas:

- Sustainable sites
- Water efficiency
- Energy and atmosphere
- Materials and resources
- Indoor environmental quality
- Innovation and design process

### Benefits and Disadvantages

The move towards LEED and green building practices has been driven greatly by the tremendous benefits which are a direct result of implementing a green approach. Green buildings use key resources more efficiently when compared to conventional buildings which are simply built to code. LEED creates healthier work and living environments, contributes to higher productivity and improved employee health and comfort. The USGBC has also compiled a long list of benefits of implementing a LEED strategy which ranges from improving air and water quality to reducing solid waste. The fundamental reduction in relative environmental impacts in addition to all of the economic and occupant benefits goes a long way for making a case for green building. It is also important to note that these benefits are reaped by anyone who comes into contact with the project which includes owners, designers, occupants and society as a whole.

These benefits do not come without a cost however. Green buildings cost more both to design and to construct when compared to conventional buildings. These increased costs typically represent initial up front costs which are incurred at the start of the project. However, these initial cost increases can be minimized by the economic gains associated with constructing a LEED certified green building. These economic gains can

*(continued on page 9)*

## May Meeting Recap . . . Hoover Dam Bypass

At the May 28<sup>th</sup> monthly Chapter meeting at Dave and Buster's, Rob Turton, P.E., S.E, with HDR, Inc. presented dramatic new concrete arch joining the setting of the historic Hoover Dam, spanning the Black Canyon between the States of Arizona and Nevada.

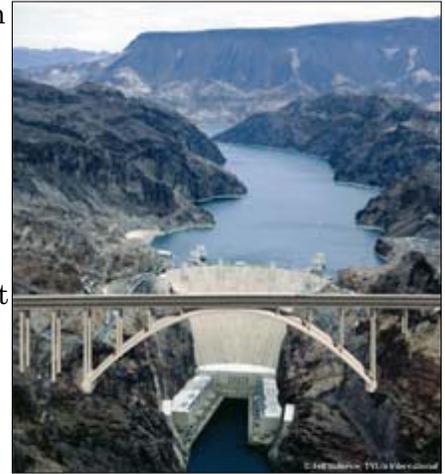
When complete, the 323 meter arch will be the 4th longest concrete arch in the world, and the longest in the United States. What makes the design distinctive is the combined use of steel and concrete to optimize construction and structural performance.

The design is the first arch structure built on such a scale to combine a composite steel deck with a segmental concrete arch and spandrels.

In addition, the design is unique in its use of steel sections for Vierendeel struts between twin concrete arch ribs – a feature that both speeds construction and adds ductility to the lateral framing system for extreme seismic loads.

This new transportation facility is designed to greatly enhance mobility in the vicinity of the historic Hoover Dam. The Hoover Dam Bypass will relocate through traffic off the dam and onto a new high-speed, four-lane roadway. The selected Sugarloaf alignment alternative of this facility carries the roadway approximately ¼-

mile downstream of the dam, requiring nearly 3.5 miles of new roadway and a 2,000-foot-long bridge with a minimum clear span of 1,090 feet across the Black Canyon, an 800-foot-deep gorge carved by the Colorado River.



The effort is being led by a Project Management Team that includes the lead agency, the Central Federal Lands Highway Division of the Federal Highway Administration, supported by the Arizona Department of Transportation, Nevada Department of Transportation, U.S. Bureau of Reclamation, National Park Service, and the Western Area Power Administration.

The overall project design team is headed by HDR and includes major partners T.Y. Lin International (Colorado River crossing) and Sverdrup Civil (approach roadways)

*Prepared by HDR Inc.*

## Leadership in Energy and Environmental Design

*(continued from page 8)*

take the form of anything from productivity gains to decreased life cycle operating costs. Studies have suggested that an initial up front investment of 2% will yield over ten times the initial investment over the life cycle of the building.

Although the deployment of the LEED Standard has raised awareness of Green Building practices, its scoring system is skewed toward the ongoing use of fossil fuels. More than half of the available points in the Standard support efficient use of fossil fuels, while only a handful are awarded for the use of sustainable energy sources. Further the USGBC has stated support for the 2030 Challenge, an effort that has set a

goal of efficient fossil fuel use by 2030.

Different versions of the rating system are available for specific project types:

- **LEED for New Construction:** New construction and major renovations (the most commonly applied-for LEED certification)
- **LEED for Existing Buildings:** Existing buildings seeking LEED certification
- **LEED for Commercial Interiors:** Commercial interior fitouts by tenants
- **LEED for Core and Shell:** Core-and-shell projects (total building minus tenant fitouts)

*(continued on page 11)*

## SPONSORSHIP OPPORTUNITIES



ASCE – San Bernardino & Riverside Counties Branch  
Monthly Lunch Meeting

**4<sup>th</sup> Wednesday of Each Month (Typically)**



### SPONSORSHIP OPPORTUNITIES

This year's lunches promise to attract the firms, agencies, and people who have helped to shape the Inland Empire. Prominent speakers will be giving presentations, and by helping sponsor the event, your company will be featured in the Monthly Lunch Program and in the ASCE newsletter. The breakdown of benefits is as follows:

- **PLATINUM SPONSOR (\$1000)**  
Reserved table for 10  
Mention at the lunch  
Mention and Logo in the ASCE Newsletter  
Listing on the Event Banner / Program
- **GOLD SPONSOR (\$500)**  
Reserve seating for 5  
Mention at the lunch  
Mention and Logo in the ASCE Newsletter  
Listing on the Event Banner / Program
- **SILVER SPONSOR (\$250)**  
Seating for 2  
Mention at the lunch  
Mention and Logo in the ASCE Newsletter  
Listing on the Event Banner / Program

**SIGN ME UP!** I want to be a part of the ASCE San Bernardino & Riverside Branch Lunch and take advantage of the promotional opportunities afforded to me as a selected sponsor.

Platinum \_\_\_ Gold \_\_\_ Silver \_\_\_

Company: \_\_\_\_\_

Contact Name: \_\_\_\_\_

Address: \_\_\_\_\_

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_

Email: \_\_\_\_\_

**PLEASE FAX or EMAIL to: Scott Petersen (Branch Treasurer)**

**Fax: (951) 352-6200 Phone: (951) 352-4100 ext. 206**

**Email: [spetersen@adams-streeter.com](mailto:spetersen@adams-streeter.com)**

**You will be invoiced for payment by ASCE / S. Bdo & Riv. Branch**

# The Call for Papers for the Third International Conference on Urban Transportation Systems has been Extended to June 20, 2008

You are invited to submit papers for presentation at the Third International Conference on Urban Transportation Systems to be held March 18-20, 2009 in Shanghai, China.

This conference will offer a forum for civil engineers seeking to address civil engineering applications associated with all modes of public transportation, including bus and rail. The civil engineering profession, through its many sub-disciplines, provides a vast array of specialized knowledge toward the science of safe and efficient movement of people and goods. Civil engineers throughout the world take on many important roles in support of the public transportation industry.

Note that the abstract submission deadline has been extended to June 20, 2008. If you are interested in presenting a paper in any of the three parallel tracks, please prepare and submit a 250 word abstract to Pete Sklannik, Jr., Conference Program Chair, by e-mail. All submissions must be in MS Word.

**2008**

- June 20 Abstracts Due
- July 7 Notification of abstract acceptance, subject to peer review

- Aug 15 Full paper in conference format submitted by e-mail (MS Word file), subject to peer review.
- Sept. 15 Notification of acceptance and corrections if needed
- Oct. 15 Final paper and necessary permission forms submitted.
- Nov. 1 At least one author is required to Register by this date to ensure publication of the paper in the conference proceedings.

**2009**

- Mar. 18-20 Conference in Shanghai, China

## Leadership in Energy *(continued from page 9)*

- **LEED for Homes:** Homes
- **LEED for Neighborhood Development:** Neighborhood development
- **LEED for Schools:** Recognizes the unique nature of the design and construction of K-12 schools
- **LEED for Retail:** Consists of two rating systems. One is based on New Construction and Major Renovations version 2.2. The other track is based on LEED for Commercial Interiors version 2.0.

*Information obtained from Wikipedia The Free Encyclopedia.*



**GEOCON**  
INLAND EMPIRE, INC.  
GEOTECHNICAL ENVIRONMENTAL MATERIALS

James R. McLaughlin, CEG  
Office Manager

41571 Corning Place  
Suite 101  
Murrieta, CA 92562-7065  
Tel. (951) 304-2300  
Fax (951) 304-2392  
Mobile (951) 704-4806  
mclaughlin@gcoconinc.com

**TYLIN INTERNATIONAL**  
engineers | planners | scientists

Gary Antonucci, P.E.  
Vice President

3550 Vine Street, Suite 120  
Riverside, California 92507  
www.tylin.com

telephone: 951.788.4688  
mobile: 909.844.8739  
facsimile: 951.788.4988  
email: gantonucci@tylin.com



**Merrell-Johnson Engineering, Inc.**

Brad S. Merrell, P.E.  
Principal  
brad.merrell@mjei.com

128 E. Fredricks St.  
Barstow, CA 92311  
T: (760) 256-2068  
F: (760) 256-0418

12138 Industrial Blvd., Ste. 240  
Victorville, CA 92395  
T: (760) 241-8146  
F: (760) 241-0566

Civil Engineering  
Structural Engineering  
Land Development  
Surveying

Civil • Environmental • Water Resources  
Surveying • Construction Management • Program Management



**TKE ENGINEERING, INC.**

4446 Central Avenue • Riverside California 92506  
(951) 680-0440 • Fax (951) 680-0490  
www.tkeengineering.com

A L B E R T A .



**WEBB ASSOCIATES**

3788 McCray Street  
Riverside, CA 92506  
ph 951.686.1070  
fax 951.788.1256  
www.webbassociates.com

Serving Southern California's Civil Engineering & Planning Needs



**WILLDAN**  
Serving Public Agencies

Ronald L. Espalin, P.E.  
Senior Vice President

650 Hospitality Lane, Suite 400  
San Bernardino, California 92401  
909/386-0200 fax 909/888-5107  
direct: 909/386-0204  
respalin@willdan.com www.willdan.com

**AEI-CASC**  
CONSULTING

Corporate Office  
937 S. Via Lata, Suite 500 • Colton, CA 92324  
909.783.0101 • 909.783.0108 fax

Offices in Orange, San Diego, Los Angeles,  
San Bernardino and Riverside Counties

[www.aei-casc.com](http://www.aei-casc.com)

**Civil Engineering | Planning  
Environmental Engineering | Surveying**



**Raymond J. Allard, P.E.**  
Principal  
rallard@allardeng.com

**ALLARD ENGINEERING**  
civil engineering • land surveying • land planning  
Fontana • Victorville

8253 Sierra Ave. • Fontana, CA 92335  
Ph. (909) 356-1815 • Fax (909) 356-1795  
[www.allardeng.com](http://www.allardeng.com)



CHRIS TURNAGE, PE

**Associated Engineers Inc.**  
CONSULTING CIVIL ENGINEERS  
planning • designing • surveying

3311 E. SHELBY STREET • ONTARIO, CALIFORNIA 91764-4872  
TEL: (909) 980-1982 • FAX: (909) 941-0891  
[cturnage@assoc-eng.com](mailto:cturnage@assoc-eng.com)

**JOSEPH E. BONADIMAN & ASSOCIATES, INC.**  
Consulting Engineers Land Surveyors

**MANUEL A. DELGADO, P.E.**  
Senior Water Resources Engineer  
Project Manager

234 N. Arrowhead Ave., San Bernardino, CA 92408-1013  
(909) 885-3806 • Fax (909) 381-1721  
[md@bonadiman.com](mailto:md@bonadiman.com)

**CALTROP**

**JIM ROBINSON**  
Sr. Project Manager

CALTROP Corporation  
8285 Sierra Ave.  
Suite 110  
Fontana, CA 92335  
Tel. (909) 434-7001  
Fax (909) 355-7106

Direct (909) 291-1250  
Cell (909) 917-8839  
[jrobinson@caltrop.com](mailto:jrobinson@caltrop.com)

**Carter Burgess** Engineering, Architecture  
and Related Services

**Garry A. Cohoe, P.E.**  
Vice President

3257 E. Guxviil Road  
Suite 120  
Ontario, California 91761  
[garry.cohoe@c-b.com](mailto:garry.cohoe@c-b.com)  
[www.c-b.com](http://www.c-b.com)

909.781.1869 Mobile

**CDM**

**Richard W. Corneille, P.E., BCEE, PMP**  
Vice President

tel: 909 579-3500  
fax: 909 980-5185  
email: [corneillerw@cdm.com](mailto:corneillerw@cdm.com)

Camp Dresser & McKee Inc.  
9220 Cleveland Ave, Suite 100  
Rancho Cucamonga, California 91730

consulting • engineering • construction • operations



**Robert Johnson**  
PRESIDENT  
Cell #: (909) 322-7099  
[rjohnson@chjinc.com](mailto:rjohnson@chjinc.com)

**C.H.J. Incorporated**

- GEOTECHNICAL ENGINEERING
- MATERIALS TESTING
- CONSTRUCTION INSPECTION
- ENVIRONMENTAL CONSULTING

1355 East Cooley Drive  
Colton, CA 92324  
Phone: (909) 824-7210  
Fax: (909) 824-7209  
[www.chjinc.com](http://www.chjinc.com)

15345 Anacapa Road, Unit D  
Victorville, CA 92392  
Phone: (760) 243-0506  
Fax: (760) 243-1225



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

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

Costa Mesa Office (714) 444-9680  
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](http://www.converseconsultants.com)



**DIAZ • YOURMAN**  
& ASSOCIATES

**Gerald M. Diaz, P.E., G. E.**  
Principal

*Geotechnical Services*

475 South Arrowhead Avenue, Suite A San Bernardino CA 92408  
Tel. (909) 266-1398 • Fax (909) 522-4376 • Cell (714) 412-2088

[jerry@diazyourman.com](mailto:jerry@diazyourman.com) [www.diazyourman.com](http://www.diazyourman.com)

**DMJM HARRIS | AECOM**

**Mario A. Montes, PE**  
Associate Vice President

**DMJM Harris**  
800 N. Haven Ave., Suite 410  
Ontario, CA 91764

E [mario.montes@dmjmharris.com](mailto:mario.montes@dmjmharris.com)  
T 909.291.8150 F 909.291.8166  
Direct 909.291.8135 C 714.336.5191  
[www.dmjmharris.com](http://www.dmjmharris.com)



**JOHN G. EGAN, P.E.**  
PRINCIPAL ENGINEER

1820 COMMERCENTER CIRCLE  
SAN BERNARDINO, CA 92408  
(909) 890-1255  
(909) 890-0995 FAX  
email: [jegan@erscinc.com](mailto:jegan@erscinc.com)



**DAVID EVANS  
AND ASSOCIATES INC.**

**RICHARD A. HART, P.E.**  
Vice President  
Southern CA Transportation Leader

4200 Concourse Suite 200  
Ontario California 91764

TELEPHONE: 909.481.5750  
FACSIMILE: 909.481.5757



**GEOCON**  
INLAND EMPIRE, INC.  
GEOTECHNICAL  
ENVIRONMENTAL  
MATERIALS

James R. McLaughlin, CEG  
Office Manager

41571 Corning Place  
Suite 101  
Murrieta, CA 92562-7065  
Tel. (951) 304-2300  
Fax (951) 304-2392  
Mobile (951) 704-4806  
[mclaughlin@geoconinc.com](mailto:mclaughlin@geoconinc.com)



**Hall & Foreman, Inc.**

**Setting the Bar Higher**  
Through Solutions, Performance, and Relationships

visit us online for job listings at  
[www.hfinc.com](http://www.hfinc.com)  
**800.544.2114**

With offices in Irvine, Rancho Cucamonga, Santa Clarita,  
Temecula, Victorville, and Woodland Hills



**Guillermo (Bill)  
Flores Jr., P.E.**  
Water Resources  
Project Manager

HDR Engineering, Inc.  
2280 Market Street  
Suite 100  
Riverside, CA 92501  
[www.hdrinc.com](http://www.hdrinc.com)  
[Bill.Flores@hdrinc.com](mailto:Bill.Flores@hdrinc.com)

Main (951) 320-7300 Direct (951) 320-7311  
Fax (951) 320-7301



**DENNIS W. HEIDER, RCE**  
Principal Engineer

Ph: (909) 673-0292  
FAX: (909) 673-0272

800-A South Rochester Ave.  
Ontario, CA 91761

[www.heiderengineering.com](http://www.heiderengineering.com)  
email: [dennis@heiderengineering.com](mailto:dennis@heiderengineering.com)

**SOIL  
&  
MATERIAL  
TESTING**



**Jimley-Horn  
and Associates, Inc.**

**Riverside Office**  
1770 Iowa Avenue, Suite 200  
Riverside, CA 92507-2479

Tel: 951-782-0841  
Fax: 951-782-0849

[www.jimley-horn.com](http://www.jimley-horn.com)

— Land Development  
— Water and Wastewater  
— Traffic  
— Transportation  
— Roadway  
— Environmental  
— Aviation  
— Stormwater  
— Planning

*Serving Southern California*

*Richard R. Escandon, RG, CEG*  
Geotechnical Department Manager



**KLEINFELDER**  
1220 Research Drive, Suite B  
Redlands, CA 92374  
(909) 793-2691  
(909) 557-1453 direct  
(951) 830-6764 cellular  
(909) 792-1704 fax  
rescandon@kleinfelder.com  
www.kleinfelder.com

**KRIEGER & STEWART** INCORPORATED

- WATER
- WASTEWATER
- RECYCLED WATER
- STORM WATER

ENGINEERING CONSULTANTS

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

**LAN** LIM & NASCIMENTO ENGINEERING  
ENGINEERS \* CONSTRUCTION MANAGERS \* ROADS & BRIDGES

1887 Business Center Dr.  
2nd Floor, Suite 6  
San Bernardino, CA 92408  
Tel: (909) 890-0477 x 301  
Fax (909) 890-0467  
12 Mauchly, Blvd. L  
Irvine, Ca 92618  
Tel (949) 450-2800

**Edward Ng, PE**  
Project Manager  
Chief Civil Engineer  
Cell Phone: (909) 660-2089

CIVIL ENGINEERING LAND SURVEYING LAND PLANNING MAPPING

**LOCKWOOD ENGINEERING COMPANY**  
380 WEST FOOTHILL BLVD., SUITE F  
P. O. BOX 396, RIALTO, CALIFORNIA 92377-0396

CARLETON W. LOCKWOOD, JR. OFFICE (909) 875-5015  
RCE 45935, LS 7378 FAX (909) 875-4627  
CARLLOCK@PACBELL.NET WWW.LOCKWOODENGINEERING.COM

**LOR** GEOTECHNICAL GROUP, INC.  
Soil Engineering • Geology • Environmental

**John P. Leuer, GE**  
President

6121 Quail Valley Court 19-438 Ruppert Street  
Riverside, CA 92507 Palm Springs, CA 92262  
(951) 653-1760 (760) 329-2727  
Fax (951) 653-1741 Fax (760) 329-2626  
Toll Free 8888 LORGEO Mail To: P.O. Box 580799  
Email: jleuer@lorgeo.com N. Palm Springs, CA 92258

**PARSONS**

3602 Inland Empire Blvd., Suite B-120  
Ontario, California 91764  
Office: (909) 919-2589  
Direct: (909) 919-2590  
Fax: (909) 919-7939  
lenwood.howell@parsons.com

**Lenwood Howell**  
Senior Project Manager

www.parsons.com

**PB** Americas, Inc.

685 E. Carnegie Drive  
Suite 210  
San Bernardino, CA 92408  
909-888-1106  
Fax: 909-889-1884  
ThomasD@pbworld.com

**David K Thomas, P.E.**  
Project Manager

real vision  
**Inspiring reality**  
PBSJ

Civil Engineering  
Transportation  
Environmental  
Construction

Orange	714.750.7275
Los Angeles	310.268.8132
Riverside	951.358.1433
Encinitas	760.753.1120
San Diego	858.874.1810

Offices throughout the US / pbsj.com

**PENCO Engineering, Inc.**  
Civil Engineering  
Planning  
Surveying

**Jerry L. Burke, P.E.**  
Senior Project Manager

E-mail: jburke@pencoeng.com

2191 Fifth Street, Suite 211, Norco, California 92860  
Telephone: (951) 736-2040 Facsimile: (951) 736-5292

**PETRA**  
past + present + future  
IT'S ABOUT SCIENCE

**Geologists  
Geotechnical Engineers  
Environmental Scientists**

888-243-6100

**PROJECT DESIGN CONSULTANTS**

WILLIAM R. DICK, P.E., P.L.S.  
PRINCIPAL/COO  
619.851.8858 CELL  
BILL@PROJECTDESIGN.COM

43460 RIDGE PARK DR., STE. 170  
TEMECULA, CA 92590  
951.695.5596 TEL  
951.695.5597 FAX  
WWW.PROJECTDESIGN.COM

**PSOMAS**

Thomas S. Love, PE  
Vice President  
Land Development Services

2010 Iowa Avenue  
Suite 101  
Riverside, CA 92507  
951.781.0421  
951.682.3379 Fax  
951.235.7305 Call  
tlove@psomas.com  
www.psomas.com

**RBF CONSULTING** CE NEWS TOP 2 BEST FIRM To Work For

Providing innovative, timely and cost effective solutions to today's design challenges through personalized Client service.

PLANNING ■ DESIGN ■ CONSTRUCTION

Offices located throughout Arizona, California and Nevada • www.RBF.com

**RICK ENGINEERING COMPANY** 1223 University Avenue, Suite 240  
Riverside, CA 92507  
(951) 782-0707

Civil Engineering • Transportation & Traffic  
Landscape Architecture • Urban Design & Planning  
Redevelopment • Surveying & Mapping • Water Resources  
Photogrammetry • GIS Services • Construction Management

www.rickengineering.com

RIVERSIDE SAN DIEGO ORANGE SACRAMENTO  
SAN LUIS OBISPO BAKERSFIELD PHOENIX TUCSON

**Stantec**

**Stantec Consulting**  
3105 East Guasti Road  
Ontario CA 91761  
Tel: (909) 390-8880  
Fax: (909) 390-8885

stantec.com

**WILSON & COMPANY**

Larry G. Long  
Vice President

625 East Carnegie Drive, Suite 100  
San Bernardino, CA 92408  
909-806-8002 Direct • 909-806-8099 Fax  
866-270-6283 Toll Free  
Larry.Long@wilsonco.com • www.wilsonco.com

WILSON & COMPANY, INC. ENGINEERS & ARCHITECTS

**VA Consulting, Inc.**  
Inland Empire Division President

**John S. Wolter, P.E.**  
Inland Empire Division President

255 E. Rincon Street, Suite 323  
Corona, CA 92879

Phone 951.340.0030  
Direct Dial 951.278.0106 Ext. 202  
Cell 949.202.6078  
Fax 951.340.0041  
E-mail jwolter@vaconsultinginc.com

Offices in: Irvine • Corona • Rancho Mirage

**SOIL RETENTION**  
Manufacturing • Distribution • Design • Installation

**Niklas Jansson, P.E.**  
Sales Engineer

800-346-7995  
760-966-6090 Ext 107  
760-966-6099 Fax  
njansson@soilretention.com

2501 State Street  
Carlsbad, CA 92008



# Mark Your Calendar

**SAN BERNARDINO &  
RIVERSIDE COUNTIES  
BRANCH MEETING  
WEDNESDAY, JUNE 25**

## **RESERVATIONS**

**J. Scott Petersen  
(951) 352-4100**

**[http://www.projectpartners.com/p/s/ps\\_show\\_events.asp?id=19](http://www.projectpartners.com/p/s/ps_show_events.asp?id=19)**

*To request a vegetarian meal please notify  
Scott via e-mail [spetersen@adams-streeter.com](mailto:spetersen@adams-streeter.com)*

Mail checks to Scott Petersen  
Adams-Streeter  
2900 Adams St., Suite A-400  
Riverside, CA 92504

## **ASCE Branch Monthly Meeting**

Date Wednesday, June 25, 2008  
Speaker John Lucey, National Director for Industrial Water at HDR  
Topic Enertech SlurryCarb Biosolids Facility, Rialto Update  
Time 11:30 am Check In/Networking  
12:00 pm Luncheon and Program/Discussion  
1:00 pm Adjournment  
Location Hilton, San Bernardino  
285 W Hospitality Lane  
Cost ASCE Members w/RSVP \$25  
No Members & No RSVP \$30  
Students \$12

**RSVP Deadline June 18 at noon**



c/o Rita Escobar  
ASCE Newsletter Editor  
Hall & Foreman  
9130 Anaheim Place  
Rancho Cucamonga, CA 91730

FIRST CLASS MAIL