



# San Bernardino & Riverside Counties Branch

Celebrating 56 years of Service

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## President's Message

I recently had a conversation with two co-workers regarding water rates and the conditions of water infrastructure, particularly water pipelines. Like roads demands on water supply and quality are continually increasing while financial resources are stretched creating the need for additional sources of revenue. The discussion I was engaged in was about upcoming adjustments in the water rates and what those rates would be used for.

Being program managers my co-workers were quite familiar when it came to hearing the public's complaints about any changes in their water rates. Not having a background in water supply I was still able to relate to the concerns when the conversation turned to the recent water line failures in Los Angeles. Most of us can probably relate one way or another to the adage that we don't hear "atta-boy" when things are working right. If however there is a failure we know about it. Failure of our infrastruc-

ture is not acceptable to a well functioning society. Unfortunately the administering, planning, and funding of infrastructure is something most people are not familiar with.

I had barely mentioned ASCE's advocacy of greater involvement in the public process when my friends pointed out how a civil engineer's expertise can be invaluable to a utility commission. Such commissions, which typically make suggestions to a city council, are not necessarily, dare I say rarely, composed of utility experts. A civil engineer elected to a public commission on utilities can educate our elected officials about our unseen infrastructure.

Brian D. Wolfe, PE ASCE  
President, San Bernardino/  
Riverside Counties Branch of  
the LA Section of ASCE



NEWSLETTER

# Engineering History

## Hudson and Manhattan Railroad Tunnel



**New York City to Hoboken, New Jersey Completed 1908**

**"...One of the greatest engineering feats ever accomplished, greater perhaps than the Panama Canal will be when opened, considering the obstacles which had to be overcome..."**  
**- The New York Times, 1908**

### Resources

- Anthony Fitzherbert, *William G. McAdoo and the Hudson Tubes*; Electric Railroaders Association, 1964
- Brian J. Cudahy, *Rails Under the Mighty Hudson*; Stephen Greene Press, 1975
- *Engineering News-Record*, "125 Years in ENR History" (1999)
- Paul Carleton, *The Hudson & Manhattan Railroad Revisited*; D. Carleton Railbooks, 1990

A transportation tunnel under the Hudson River connecting Manhattan and New Jersey was first considered in the 1860s, fueled by New York City's rapidly growing congestion and the inadequacy of existing ferry service to population centers across the river. DeWitt Clinton Haskin, an engineer formerly with the Union Pacific Railroad, started the project in 1874 and subsequently endured an extended lawsuit, several failures of the tunnel wall, and an exhaustion of funds before quitting in 1887 with only 1,600 feet completed.

Two years later, a British team took up the project only to be halted in 1891 by a financial crisis, just 1,600 feet short of completion. William G. McAdoo, a Southern attorney who later served as Secretary of the Treasury under President Woodrow Wilson, finally completed the tunneling project. McAdoo later added another tunnel, extended the rail line into upper Manhattan, and helped connect its 33rd Street station, later known as Pennsylvania Station, with commercial real-estate development.

### Facts

- The Hudson and Manhattan tunnel was the first large transportation tunnel constructed under a major river in the United States. A bridge connecting Manhattan and

New Jersey was considered a more tenuous possibility because the Hudson River's bottom was known to consist solely of deep mud in some places.

- DeWitt Haskin's work plan involved sealing the tunnel and filling it with 35 pounds of air pressure to expel water and hold the tunnel's iron-plate liners in place. Workers entered through a concrete wall equipped with an air lock. Unfortunately, the compressed air could not keep the tunnel walls sealed, and blow-outs occurred in 1880 and 1882, flooding the work site.

- A British engineer, Sir Thomas Cochran, used compressed air in devising the first pneumatic caisson -- or air-tight chamber -- in 1830. In the early 1870s, James Buchanan Eads used pneumatic caissons in constructing the foundations for his celebrated Eads Bridge crossing the Mississippi River at St. Louis, Missouri.

- The British team adapted technology used in the 1860s construction of London's subway by combining a shield to support the tunnel walls with Haskin's application of pneumatic pressure to the work face. The Greathead shield, named after its designer, has served as a prototype for all subsequent tunneling equipment.

- William McAdoo recommenced work in 1902, hiring Charles Jacobs as his chief engineer. Jacobs had built the first underwater tunnel in the city, an eight-foot-diameter bore for gas mains under the East River. Before completing the tunnel, the pair encountered solid rock that took 11 months of careful blasting to excavate.

- The Hudson and Manhattan Railroad Company formed the basis for the Port Authority Trans-Hudson (PATH) system in northeastern New Jersey and Manhattan that extended 14 miles, includes 13 stations, and serves more than 200,000 passengers a day.

## China's Sutong Bridge named 'Outstanding' project for 2010



The world's longest-spanning cable-stayed bridge, China's Sutong Bridge has been selected as ASCE's Outstanding Civil Engineering Achievement for 2010. Chosen from a competitive field of five finalists, the winner was announced at the Society's OPAL Gala in Washington, D.C., Thursday evening. Near the east coast of China, the Sutong Bridge has reduced a four-hour commute between Shanghai and Nantong to an hour. The gala also paid tribute to the winners of ASCE's 2010 Outstanding Projects and Leaders awards, as well as winners of the Charles Pankow Award for Innovation and the Henry L. Michel Award for Advancement of Research.

### California tribal casino harnesses solar energy

The Harrah's Rincon Casino in California will be powered by the largest solar power system on an Indian reservation. The \$8 million project will allow the casino to run its air conditioning system primarily on solar energy. "It's a big event for the tribe," said Rincon Tribal Chairman Bo Mazzetti. [San Diego Union-Tribune](#) (3/18)

### 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 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.

Classes are free and last 4 or 5 hours. They 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.

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 requests 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 of the A S C E, Jack W. Rolston, Chair  
818-903-5225 c 818-345-9199 o 818-345-5283 fx [ascedisaster@earthlink.net](mailto:ascedisaster@earthlink.net)

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## March Luncheon Meeting Recap



The branch was pleased to welcome Bill Ingraham from Ingraham Consulting to our March branch luncheon meeting at the San Bernardino Hilton. Bill spoke to us about the upgrades and future plans for the airport's infrastructure and facilities. The meeting was well attended and the board would like to thank all attendees for their support.

"San Bernardino International Airport (SBD) stands ready to provide a wide range of services to the aviation community and the traveling public. Years of effort on the part of many have made this possible. It has taken the energy and commitment of political and civic leaders; federal and state agencies; consultants and contractors; and last, but not least, very dedicated and focused staff to get to this point."

Amongst other items, Bill spoke about the significant improvements that have been made on the airfield including the complete removal of the old military runway and replacing it with a new pavement capable of accommodating any aircraft that flies. Additionally, renovation or redevelopment of facilities to accommodate various aviation needs include: large hangars to house heavy aircraft maintenance activities, modern general aviation hangars and terminal facilities, expanded commercial passenger terminal and, to support these facilities, roadways, ramp improvements, parking lots and other infrastructure.



Bill mentioned that these efforts have drawn a lot of attention amazingly from across our borders. "We are seeing interest from as near as our friends in Mexico and as distant as China. This foreign interest has caused us to rethink some facilities, most recently resulting in a total redesign of our Customs and Immigration facility."



Federal grants have helped with the completion of a long-term parking and storage lot that consists of approximately 20 acres on the east side of SBD along 3rd Street near Palm Avenue; extension of Lena Road between Central Avenue to the north and Orange Show Road to the south; installation of a solar power system to be built with new parking lot canopies near the SBD passenger terminal. Visit [www.sbdairport.com](http://www.sbdairport.com) for additional details.



REGION 9, LOS ANGELES SECTION  
SAN BERNARDINO & RIVERSIDE COUNTIES BRANCH

## Annual Joint meeting with Cal Poly Pomona Student Chapter

### April Branch Dinner

**Topic:** ASCE Pacific Southwest Regional Conference (PSRC). The history of Concrete Canoe in the United States actually began in the 1960s, when a small number of ASCE student chapters started holding intramural Concrete Canoe races. Then, in the 1970s, both the University of Illinois at Urbana-Champaign and the University of California, Berkeley claim to have held the first regional competition. In the more than 30 years since, the students' efforts to combine engineering excellence and hydrodynamic design to construct water-worthy canoes have culminated in an advanced form of concrete construction and racing technique known as the "America's Cup of Civil Engineering."

This year Over 120 ASCE Cal Poly Pomona students will be attending the Pacific Southwest Regional Conference to be held at the University of Nevada, Las Vegas. The students will present their Concrete Canoe design and share their experiences at the conference.

**Date:** Tuesday, April 20, 2010  
**Time:** 6:00pm to 8:00pm  
**Location:** 11896 Foothill Blvd. Rancho Cucamonga CA, 91730  
**Cost:** Members w/ RSVP \$25  
 Non-members or no RSVP \$30  
 Students \$12.50

**Deadline:** 4/15/2010

**Additional Info:** Rita Escobar, Branch Treasurer (714) 567-2498

## Newsletter Information

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For Billing information contact:  
 Rita Escobar at 714-567-2498  
 Email at rita.escobar@aecom.com

## White Water Rafting Trip

**Where:** Upper Kern River  
11300 Kernville Road  
Kernville, CA 93238

More Information & Directions: [www.sierrasouth.com](http://www.sierrasouth.com)

**Date:** Sunday, June 27th, 2010

**Time:** 8:30 am

**Who:** ASCE LA YMF Groups

**What:** Half Day Rafting Level III-IV

**Cost:** \$ 150.00 per person (Includes all equipment, camping, parking and all meals and drinks)



**Deadline to sign-up June 18, 2010**

Make Check payable to: **OC-YMF**

Rocio Duran  
P.O. Box 341236  
Arleta, Ca 91334-1236



### Must bring with you

Driver's License

Clothes that can get wet

- Shorts or Bathing Suits
- Dry clothes to change

Tennis Shoes or River Sandals

Sleeping Bag (if Camping)

Tent (if Camping)

Sunscreen

Hats & Visors

Sunglasses

### Camping (Optional)

**Where:** Frandy Camp Site

11252 Kernville Rd

Kernville, CA 93238

**Date:** Friday & Saturday, June 25-27<sup>th</sup>, 2010

**Time:** Anytime after 2pm Check-in

Food & Drinks included!

**Cost:** Included with price

### For More Information:

<http://www.frandy.net/>



### For questions, contact:

Rocio Duran at 714-614-0727 ([rduran129@hotmail.com](mailto:rduran129@hotmail.com))

If you have a business card advertisement in this newsletter and would like your company or public agency "Spotlighted" in future newsletters please contact the Branch Newsletter Editor, Francis Gbondo, at (951)790-9548 email: [fjgbondo@yahoo.com](mailto:fjgbondo@yahoo.com) or the Treasurer, Rita Escobar, at (714) 567-2498 email: [rita.escobar@acem.com](mailto:rita.escobar@acem.com)

**AMERICAN SOCIETY OF CIVIL ENGINEERS**

San Bernardino &amp; Riverside Counties Branch

2009-2010 Awards Program

The San Bernardino & Riverside Counties Branch of the American Society of Civil Engineers has developed an awards program to recognize local Civil Engineers and projects. The Branch has established the following local awards for 2009-2010. Nominations must be postmarked by **April 30, 2010**. Mail completed nomination forms and support information to:

**Tim Wilson, PE**  
963 Sarazen Street  
Hemet, CA 92543  
Main: (951) 306-2186  
twilson@cityofredlands.org

All nomination forms and supporting documentation are the property of the San Bernardino & Riverside Counties Branch and may be used at the Branch's discretion. Submittals shall not be returned to the applicant. For additional information, please contact Tim Wilson at (951) 306-2186, or twilson@cityofredlands.org.

Civil Engineer of the Year (Private & Government)/Young Civil Engineer of the Year Award

The Civil Engineer (Private & Government) and Young Civil Engineer of the Year Awards recognize an individual who best exemplifies the civil engineering profession. The nominees shall be worthy of acknowledgment through their exemplary professional conduct, reputation, achievement, and contribution to the image of the civil engineer. The nominee must be an ASCE National member and a member of the San Bernardino & Riverside Counties Branch. The nominees must work and/or reside within the boundaries of the Branch for a minimum of 18 months prior to the award. Young Civil Engineer Award nominees must be 35 years of age or younger as of the postmark date identified hereinabove. Past recipients of these awards are not eligible.

Selection of the Civil Engineer (Private & Government) or Young Civil Engineer of the Year Awards shall be based on the following criteria: education and professional qualifications such as degrees held, projects completed, patents, publications, presentations, and teachings; professional qualities including society affiliations, offices held, leadership skills, professional conduct, reputation for service, character, and integrity; contribution to the image of the civil engineer through community service, volunteer work, and public education; honors and awards.

All applications for the Civil Engineer (Private & Government) or Young Civil Engineer of the Year Awards shall include the following (*total application packet limited to five pages*): completed award program entry form, description of how the individual meets the above listed criteria (*two page limit*), biography or resume (*one page limit*), copies of the newspaper or journal articles and other supporting information, if applicable.

Outstanding Civil Engineering Project Award

This award acknowledges outstanding examples of civil engineering achievement. Local projects shall be considered for their innovation, uniqueness, complexity, and benefit to society. Any civil engineering project currently in use and completed within the previous 18 months is eligible. The project must be located within the boundaries of the San Bernardino & Riverside Counties Branch.

Each project will be evaluated on the following criteria: innovative design and/or construction, benefit to the community, project complexity and/or challenges, impact on physical environment, unique operation or maintenance, aesthetics.

All applications for the Outstanding Civil Engineering Project Award shall include the following: completed award program entry form, description of the project and how it meets the above listed criteria (*two page limit*), at least one color photograph or color photocopy of the project, copies of newspaper or journal articles about the project, if applicable.

Civil Engineering Project Improvement Award

This award acknowledges examples of outstanding civil engineering achievement for improvement of existing facilities. Local projects shall be considered for their innovation, uniqueness, complexity, and benefit to society. Any civil engineering projects currently in use and completed within the previous 18 months is eligible. The improvement must be to increase capacity of the original facility or to bring existing systems into compliance with current regulations. The project must be located within the boundaries of the San Bernardino & Riverside Counties Branch. Any project that previously received the award for Civil Engineering Project Improvement is not eligible for nomination for any subsequent improvements.

Each project will be evaluated on the following criteria: innovative design and/or construction, ability to merge with original facility, benefit to the community, project complexity and/or challenges, impact on physical environment including aesthetics, unique operation or maintenance.

All applications for the Civil Engineering Project Improvement Award shall include the following: completed award program entry form, description of the project and how it meets the above listed criteria (*two page limit*), at least one color photograph or color photocopy of the project, copies of newspaper or journal articles about the project, if applicable.

-NOMINATION FORM ON BACK-

**AMERICAN SOCIETY OF CIVIL ENGINEERS**

San Bernardino &amp; Riverside Counties Branch

2009-2010 Awards Program

Please complete one form for each nomination.

CIVIL ENGINEER OF THE YEAR PRIVATE, GOVERNMENT OR YOUNG CIVIL ENGINEER OF YEAR (Circle One)	
Name:	
Title:	
Employer:	
Address:	
Phone:	Fax:
On a separate sheet of paper, please provide the following information about the nominee: Education and professional registration, work experience, professional and society affiliations, patents, publications and presentations, community service and public education, honors and awards.	
OUTSTANDING CIVIL ENGINEERING PROJECT	
Project Name:	
Project Address or Location:	
Project Owner Name or Company:	
Contact Person:	
Mailing Address:	
Phone:	Fax:
On a separate sheet of paper, please provide information on how the project meets the criteria for this award. Consider all phases of the project, including planning, design, construction, and operation maintenance. Describe any special features, innovations, and challenges. Include information on the environmental impacts and public benefits of the project, attach a color photograph or photocopy of the project and any articles from trade journals or newspapers about the project.	
CIVIL ENGINEERING PROJECT IMPROVEMENT	
Project Name:	
Project Address or Location:	
Project Owner Name or Company:	
Contact Person:	
Mailing Address:	
Phone:	Fax:
On a separate sheet of paper, please provide information on how the project meets the criteria for this award. Consider all phases of the project, including planning, design, construction, operation, and maintenance. Describe any special features, innovations, and challenges. Provide information on how the project merges with the original facility, the environmental impacts, and the public benefits. Attach a color photograph or photocopy of the project and any articles from trade journals or newspapers about the project.	
To be completed for each nomination.	
SUBMITTED BY:	
Name:	
Title:	
Company:	
Address:	
Phone:	Fax:

All nomination forms and supporting documentation are the property of the San Bernardino & Riverside County Branch and may be used at the Branch's discretion. Submittals will not be returned.

**LETTERS TO THE EDITOR**

Any thoughts or comments about the newsletter?

Please email, phone to:

Francis Gbondo, P.E., LEED AP, Newsletter Editor,

ASCE San Bernardino / Riverside Counties Branch

[http://www.asce-sbriv.org/board\\_of\\_directors.html](http://www.asce-sbriv.org/board_of_directors.html)

*fjgbondo@yahoo.com* 951.790.9548

**SmartQuote**



I can accept failure, but I can't accept not trying."

**--Michael Jordan,  
American basketball player**

## YOUNGER MEMBER FORUM UPDATE



On March 2, 2010 HDR hosted a meeting in their Riverside office with our local San Bernardino-Riverside YMF group and presented their contribution to the construction of the world's first commercial SlurryCarb facility. The 270,000 ton per year facility is located in the City of Rialto, on recycled land that used to be a landfill. The facility provides a recycling plan for five municipalities including the Los Angeles region, Sanitation District of Los Angeles County, Orange County Sanitation District, San Bernardino Municipal Water Department, City of

Riverside, and the City of Rialto, by converting their bio-solids into a renewable solid fuel, called E-fuel. Unlike coal, E-fuel produces no mercury or sulfur dioxide when burning and does not emit *additional* sources of CO<sub>2</sub>. The SlurryCarb process utilizes existing CO<sub>2</sub> and then emits this same CO<sub>2</sub> back into the atmosphere. Since coal is underground and not exposed to the air, when it burns it adds more CO<sub>2</sub> to the existing ground. The thing that amazed me most was the efficiency of the centrifuge and polymer. The specific chemical make up of the polymer efficiently paired with the appropriate centrifuge increases the mass percentage from 50% solids by mass to about 96% solids by mass. It was interesting to see how new processes work. Thank you, Sean Hoss and HDR for the fantastic presentation.

By: Julianna Gonzalez



On February 26-27, Younger Members from all over the western region attended the Western Regional Younger Member Council (WRYMC) in San Diego, California. At the conference, Younger Members got a better glimpse of the direction civil engineers are heading and what will be expected of a civil engineer in the year 2025. The WRYMC conference also provided invaluable information and encouraged discussions that provided tools that could be used in the workplace and/or brought back to our respective Younger Member branches to be used for improve-

ment. Speakers from diverse backgrounds and viewpoints presented impressionable information that encouraged us to reassess our viewpoints and ourselves. To broaden our knowledge of recent civil engineering projects, technical tours of the Padre Dam Municipal Water District, San Vicente Dam Raise and Twin Oaks Water Treatment Plant were arranged. Despite the rain, tour guides and San Diego YMFers were troopers and relentlessly provided an informative tour. And as always, WRYMC provided abundant opportunities to network, network, network. Thank you San Diego YMF for hosting a memorable WRYMC conference!

By: Mai Son

## Branch Calendar of Events

Annual Joint meeting with Cal Poly Pomona Student Chapter Dinner Meeting	Tuesday, April 20, 2010 6:00 pm – 8:00 pm	Old Spaghetti Factory 11896 Foothill Blvd Rancho Cucamonga, CA 91730
The Mentorship Committee Speed Networking & Program Overview	Thursday, April 15, 2010 6:00 pm – 7:30 pm	URS Corporation 3500 Porsche Way Ste. 300 Ontario, CA 91764
The Mentorship Committee Speed Networking & Program Overview	Thursday, April 29, 2010	TBD – Contact: Alfred Pedroza (909) 933-5225 x228
Metropolitan Los Angeles Branch Younger Member Forum The Ice House Comedy Club Special Guest – John Caparulo	Friday, April 30, 2010 10:00 pm	Rocio Duran: <a href="mailto:rduran129@hotmail.com">rduran129@hotmail.com</a> (714) 614-0727

### Geotechnical Committee Start-up

The Branch is looking for interested members to establish a geotechnical committee that will enhance the knowledge in technical fields related to geotechnical engineering between the members, as well as facilitate the professional application of this knowledge to the solution of engineering problems. The committee's goal would be the promotion of the overall objectives of the San Bernardino and Riverside Counties Branch. The committee will perform tasks useful to the geotechnical profession under direction of the Board.

Please contact Shawn Ariannia at [Shawn.a@kourygeo.com](mailto:Shawn.a@kourygeo.com) for more details.

Announcing:

**RMHwin**  
**Rational Method Hydrology**  
software for San Bernardino, Riverside  
& Orange counties

in **Windows**  
By Jack P. Norris, RCE

For complete information and pricing,  
and to download a trial version,  
please visit [JPNRCE.com](http://JPNRCE.com)

<p><b>Mario A. Montes, PE</b> Senior Project Manager Transportation</p> <p><b>AECOM</b> 1131 W. Sixth St. Suite 350 Ontario, CA 91762</p> <p>www.mario.montes@aecom.com T 909.933.5225 Ext. 225 F 909.933.5228 C 714.336.5191 www.aecom.com</p>	<p><b>AEI-CASC</b> CONSULTING ENGINEERING OUR FUTURE</p> <p>CIVIL ENGINEERING PLANNING ENVIRONMENTAL ENGINEERING SURVEYING</p> <p>CORPORATE OFFICE 937 S. Via Lata, Suite 500 Colton, CA 92324 (909) 783-0101</p> <p>Offices throughout California www.aei-casc.com</p>	<p><b>Parsons Brinckerhoff</b></p> <p>685 E. Carnegie Drive Suite 210 San Bernardino, CA 92408 Main: 909-888-1106, Ext 805 Fax: 909-889-1884 ThomasD@pbworld.com</p> <p><b>David Thomas</b> Project Manager</p> <p>UL Registered to ISO 9001 File No. A4334</p>
<p><b>Converse Consultants</b> Geotechnical Engineering and Environmental Sciences</p> <p><b>Hashmi S.E. Quazi, Ph.D., G.E.</b> COB, Regional Manager</p> <p>10391 Corporate Drive Redlands, CA 92374</p> <p>hqazi@converseconsultants.com TEL (909) 796-0544 http://www.converseconsultants.com FAX (909) 796-7675</p>	<p><b>DIAZ-YOURMAN</b> &amp; ASSOCIATES</p> <p>Gerald M. Diaz, P.E., G.E. Principal</p> <p><i>Geotechnical Services</i></p> <p>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 www.diazyourman.com</p>	<p><b>GENTERRA CONSULTANTS, INC</b></p> <p><b>Joseph J. Kulikowski, PE, GE</b> President and Principal Engineer</p> <p>15375 Barranca Parkway, Suite K-102 Irvine, California 92618 Tel: 949.753.8766 Fax: 949.753.8887 joeku@genterra.com www.genterra.com</p> <p>CIVIL ENGINEERING • GEOTECHNICAL ENGINEERING • DAM ENGINEERING WATER RESOURCES • ENVIRONMENTAL SERVICES SERVICES PROVIDED NATIONWIDE</p>
<p><b>Guillermo (Bill) Flores Jr., P.E.</b> Water Resources Project Manager</p> <p>HDR Engineering, Inc. 2280 Market Street Suite 100 Riverside, CA 92501 www.hdrinc.com Bill.Flores@hdrinc.com</p> <p>HDR Main (951) 320-7300 Direct (951) 320-7311 Fax (951) 320-7301</p>	<p><b>DENNIS W. HEIDER, RCE</b> Principal Engineer</p> <p>Ph: (909) 673-0292 FAX: (909) 673-0272</p> <p>800-A South Rochester Ave. Ontario, CA 91761 email: dennis@helderengineering.com www.helderengineering.com</p> <p>SOIL &amp; MATERIAL TESTING</p>	<p><b>KRIEGER &amp; STEWART</b> INCORPORATED</p> <p>ENGINEERING CONSULTANTS</p> <ul style="list-style-type: none"> <li>• WATER</li> <li>• WASTEWATER</li> <li>• RECYCLED WATER</li> <li>• STORM WATER</li> </ul> <p>Riverside, CA • (951) 684-6900 www.kriegerandstewart.com</p>
<p><b>PENCO Engineering, Inc.</b> Civil Engineering Planning Surveying</p> <p><b>George A. Jurica, P.E.</b> President</p> <p>gjurica@pencoeng.com Cell: 949-289-5415 www.pencoeng.com</p> <p>Irvine One Technology Park, Bldg. J-725 • Irvine, CA 92618 949-753-8111 • Fax 949-753-0775</p> <p>Inland Empire 2191 Fifth St., Ste. 211 • Norco, CA 92860 951-736-2040 • Fax 951-736-5292</p>	<p>Civil - Environmental - Water Resources - Inspection Surveying - Construction Management - Program Management</p> <p><b>TKE ENGINEERING, INC.</b></p> <p>2305 Chicago Avenue - Riverside - CA - 92507 Ph. (951) 680-0440 - Fax (951) 680-0490 www.tkeengineering.com</p>	<p><b>TYLIN INTERNATIONAL</b> engineers   planners   scientists</p> <p>Gary Antonucci, P.E. Vice President</p> <p>3550 Vine Street, Suite 120 Riverside, California 92507 www.tylin.com</p> <p>telephone: 951.788.4688 mobile: 909.844.8739 facsimile: 951.788.4988 email: gantonucci@tylin.com</p>
<p><i>Envision the future now</i></p> <p>Civil Engineering &amp; Planning Since 1945</p> <p><b>WEBB ASSOCIATES</b></p> <p>Corporate Headquarters 3788 McCray Street   Riverside, CA 92506 T: 951.686.1070   F: 951.788.1256</p> <p>Desert Region 36951 Cook Street #103   Palm Desert, CA 92211 T: 760.568.5005   F: 760.568.3443 www.webbassociates.com</p>	<p>Available space—please see contact information below to have your companies business card displayed here.</p>	<p>Available space—please see contact information below to have your companies business card displayed here.</p>

**If you'd like to have your business card or company information listed in the Professional Directory, Please Contact:**

**The Branch Treasurer, Rita Escobar,**

**at (714) 567-2498 or email at  
rita.escobar@aecom.com**

**Membership Information**

Type of Membership and Annual Dues (National)

Students: 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 <https://www.asce.org/online/> 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 <https://www.asce.org/renewal/inforenewal.cfm>. You need your membership number, all payments must be made with a major credit card. An e-receipt is transmitted to the member upon completion of the transaction.

## Mark Your Calendar

NOMINATE A PROJECT OR FELLOW CIVIL ENGINEER BY  
APRIL 30TH FOR A BRANCH AWARD



See page 7 & 8 for more details



### Branch Dinner

**Date:** Tuesday, April 20, 2010

**Time:** 6:00 pm—8:00 pm

**Location:** 11896 Foothill Blvd  
Rancho Cucamonga, CA 91730

**Cost:** Members w/ RSVP \$25; Non-members  
or no RSVP \$30; Students \$12.50

**Deadline:** Thursday, April 15, 2010

**More Info:** See Announcement on page 5



Francis Gbondo  
Newsletter Editor  
3874 Polk St., Unit B  
Riverside, CA 92505

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