



San Bernardino & Riverside Counties Branch

Los Angeles Section, Region 9 - Since 1953

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MAY 2009

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President's Message

My message this month will be brief for a change. I do want to encourage all to enter a project or an Engineer or Young Engineer in the Branch awards program. We've all had a difficult year and it would be an excellent time to see the product and their efforts recognized.

This is a transitional period in our profession. Whatever the future holds, I'm certain we have the wide range of talents needed to forge ahead. Opportunity only presents itself to those who have the vision to recognize it. Perhaps we will find our focus on a road less traveled – alternative energy, conservation, and increased efficiency. Is the way a lighter footprint on the earth?

On the other hand fortune favors the bold. There is great promise in the technologies now being developed such as Hydroelectric power from the Gulf Stream and Thermo-nuclear Fusion. As we heard in our February IECES meeting, nanotechnology may provide fibers strong enough to build an elevator to space. It can also transmit power to earth through the same fibers. Hydrogen as a chemical fuel derived from water – and clean

water from the ocean might be a side effect of these hydrogen production plants. These are creative and fanciful ideas. All these systems are based on the availability of vast amounts of energy. And why not - the universe is full of it!

As a Child of the 60's, it was my generation that strongly protested the peaceful use of nuclear fission. Frankly, most of the fears have proved to be nonsense. What to do with the waste is one major flaw was never solved. However, properly managed, nuclear power is perhaps the only appropriate solution to the environmental problems facing us. The technology is there now to reprocess spent nuclear fuel, sending useful fuel back into energy production system and make waste essentially inert. System designs now exist that make meltdowns impossible. No carbon, no methane. No greenhouse gases. But you can't allow an industry to put the reactors out there without including the processing centers to detoxify the waste as much as possible – and create a place to put



(Continued on page 2)

NEWSLETTER

(Continued from page 1)

it. Excluding Chernobyl, that was greatest nuclear power blunder.

Best wishes to all of you in the Civil Engineering Profession. I couldn't be more proud of the track record of our profession. There is a clearly positive influence on human civilization and now with progressively more sensitivity to the natural environment.

Timothy R. Wilson PE, RA, M. ASCE
 President, San Bernardino/Riverside Counties Branch of the LA Section of ASCE

Promontory, Utah
 Completed 1869

"May God continue the unity of our Country as this Railroad unites the two great Oceans of the world."
 - Inscription on the ceremonial Golden Spike

This Month in History

Transcontinental Railroad - Promontory Utah

Promontory, Utah
 Completed 1869

"May God continue the unity of our Country as this Railroad unites the two great Oceans of the world."
 - Inscription on the ceremonial Golden

railroad, joining the Union Pacific Railroad from the East and the Central Pacific Railroad from the west.

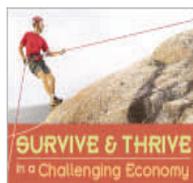
The spanning of the continent, over mountains and across deserts, proved a turning point in American history. It tied the country together, paving the way for nationwide development and commerce. It was one of the greatest civil engineering achievements of the time. Newspapers heralded its completion as one of the most significant events in the nation's history.

At noon on May 10, 1869, a crowd of 1,500 assembled in Promontory for the ceremony to join the rails. As trains from the east and the west idled a scant two rail-lengths apart, dignitaries drove the final, golden spike into a tie of polished California laurel. The trains then inched toward each other, touching noses amidst a background of



Spike
 The symbolic Golden Spike, staked in Promontory, Utah in 1869, marked the completion of the first transcontinental

Manage These Times With ASCE's Helpful Resource



Are you feeling the pinch of the recession, or are you fearing that you soon will? ASCE has a one-stop resource of what the Society has to offer that can help you continue to succeed and move forward in your professional and personal life. From assisting you in a job search, to building your professional skills, to making sure your personal finances can withstand the buffeting of the markets, Survive & Thrive includes links to a wide array of help available from ASCE.

- Check out the [Survive & Thrive guide](#), and bookmark it for easy reference later.



April Meeting Recap

On Wednesday April 17, 2009, the ASCE San Bernardino & Riverside Counties Branch had their annual joint meeting with the Cal Poly Pomona University Student Chapter at the Old Spaghetti Factory in Rancho Cucamonga.

The students presented a summary of their participation in the ASCE Pacific Southwest Regional Conference 2009 that took place at the University of Hawai'i at Manoa, Honolulu. Over 800 students from 17 universities attend, and participated in 12 events including Concrete Canoe, Steel Bridge, and Tug of War.

Cal Poly Pomona Students have worked hard and improved over the years to place 2nd in Concrete Canoe and Surveying, while placing 4th overall behind Cal Poly SLO, University of Hawai'i Manoa, and UC San Diego.

Congratulations to all participants for their hard work and dedication, and our sincere thanks to all sponsors.

Advisor, Dr. Hany Farran

Officers: Mandy An, Aaron Cox, Rory Harnish, Andrew Reed, Dustin Padua, Diana Valdovinos, Steven Taing, Joel Gonzalez, Enrique Orozco, Wadad Saikali, Brett Soderberg, Allison Jusko

New Details of 2009 Report Card's D Grade Released



Get the facts behind the overall D grade announced by ASCE in January. The complete 2009 Report Card for America's Infrastructure is now available, detailing the rationale behind the grades in 15 categories. Two months ago, with the new president, Congress and the nation debating how much of the economic stimulus package should go toward infrastructure, the Society chose to move up the release of the Report Card to draw more attention to the need for reinvestment. Now, the guidance from professional engineers that informed the

grades is available. Visit the upgraded Report Card site for detailed yet easily accessible analysis of each category, an assessment of your state's status, case studies of successful projects, suggestions for actions you can take and ways you can get involved, and more.

- Discover the specifics behind the grades at the official [2009 Report Card for America's Infrastructure site](#).
- Share your comments and track the progress of action in Washington in ASCE's blog, [Our Failing Infrastructure](#).

President Obama has cited the Report Card and ASCE in making a case for infrastructure investment in everything from town hall appearances to his 2010 budget outline. Find out from the [official White House blog](#) what he said at a recent town hall. Learn more about the budget's [reference to ASCE](#), and see the [actual page \(PDF\)](#) from the relevant section of the budget outline.

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Lighter Side

A Train Ticket

An accountant and engineering convention was being held. On the train to the convention, **there were both accounting and engineering majors**. Each of the engineering majors had his/her own train ticket. But the accountants had only **ONE ticket** for all of them. The engineers started laughing and snickering. The accountants ignored the laughter.

Then, one of the accountants said, "**Here comes the conductor**". All of the accountants piled into the bathroom. The engineers were puzzled. The conductor came aboard and collected tickets from all the engineers. He went to the bathroom, knocked on the door, and said "Ticket please". An accountant stuck their only ticket under the door. The conductor took the ticket and left. A few minutes later, the accountants emerged from the bathroom. The engineers felt really stupid.

On the way back from the convention, the group of engineering majors had ONE ticket for their group. They started snickering at the accountants, who had NO tickets amongst them. When the accountant look-out shouted "Conductor coming!" all the accountants again piled into a bathroom. All of the engineers went into another bathroom. Then, before the conductor came on board, one of the accountants left the bathroom, knocked on the other bathroom, and said "Ticket please".

CIVIL ENGINEERING JOBS

During these challenging economic times, our branch is looking for sources for employment for Civil Engineers. Please use the attached link for some possible openings in our field:

<http://www.getcivilengineeringjobs.com>

"Calling all Inland Empire Civil Engineering Companies: California Baptist University (CBU), Riverside, CA is looking for internship positions for their civil engineering students. If you have any positions available, please contact Dr. Jim Covey at (951) 343-4973 or jcovey@calbaptist.edu. Any employment opportunities would be much appreciated by CBU."

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.

Company Spotlights/Projects

If you paid for a monthly business ad and you would like your company or one of your projects spotlighted in the monthly newsletter please contact the Newsletter Editor, Matthew Addington at matthew.addington@cityofrc.us

We will be happy to place your spotlight in an upcoming issue.

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. Copies must be received by the Editor by the 3rd Thursday of the month prior to publishing.

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ASCE – San Bernardino & Riverside Counties Branch
Monthly Lunch Meeting
(date)



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:

•1 **PLATINUM SPONSOR (\$1000)**

- Reserved table for 10
- Mention at the lunch
- Mention and Logo in the ASCE Newsletter
- Listing on the Event Banner / Program

•2 **GOLD SPONSOR (\$500)**

- Reserve seating for 5
- Mention at the lunch
- Mention and Logo in the ASCE Newsletter
- Listing on the Event Banner / Program

•3 **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
You will be invoiced for payment by ASCE / S. Bdo & Riv. Branch

AMERICAN SOCIETY OF CIVIL ENGINEERS
 San Bernardino & Riverside Counties Branch
 2008-2009 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 2008-2009. Nominations must be postmarked by **May 29, 2009**. Mail completed nomination forms and support information to:

Terry Renner, PE
 TKE Engineering, Inc.
 2305 Chicago Avenue
 Riverside, CA 92507
 Main: (951) 680-0440
 trenner@tkeengineering.com

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) 658-7463, or GTSAssoc@aol.com.

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 & Riverside Counties Branch

2008-2009 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:
--------	------



Mentoring Program

The San Bernardino & Riverside County Branch Mentorship Committee along with National ASCE and the ASCE Committee on Career Development began a local ASCE Mentoring Program on May 17, 2008. The goals of this mentoring program are to:

- Provide an opportunity for our members to enter into mentoring relationships that will facilitate the growth of young engineers and the profession by means that may not be available through typical work relationships or training.
- Host an Annual Dinner and other mentoring related activities. These events will bring together all of the mentor and protégé pairs to celebrate the Mentoring Program.
- Utilize an online Mentor Database. This database would be separate from the Mentoring Relationships and would serve as additional means for younger engineers to locate experienced engineers who are willing to answer questions related to engineering. The database would appeal to those who have questions about a particular field of engineering but aren't seeking a long-term mentoring relationship.

There are numerous benefits for being a Mentor/Protégé. Mentors can influence the leaders of tomorrow to ensure the future success of our profession and they can learn about some of the challenges younger engineers face today. Protégés can learn what it takes to become a leader through experiences and wisdom of their mentor.

Participation is key. We request that you commit to working with your mentor/protégé for at least 6 months, and encourage a 12 month mentoring relationship. It is recommended that mentor/protégé pairs have contact (e-mail or call) at least once every two weeks and meet in person (or have a longer phone conversation) once a month.

ASCE will be holding a training workshop in May 2009 to give you the tools and tips on how to gain the most out of the mentoring relationships. Examples of topics to be discussed include:

- Meet your mentor/protégé in person
- Discuss the purpose of the program
- Mentoring: What It Is and Isn't
- Mentoring Benefits: Case Study and Testimonials
- Do's and Don'ts ("Ground Rules")

Sign up to participate. The attached application will assist the Committee in matching each mentor and protégé appropriately. If you interested in participating as a Mentor or Protégé, please complete the application and return via email or fax to:

Protégé Applications:
 Alfred Pedroza, PE
 APedroza@BoyleEngineering.com
 (909) 933-5225 Phone
 (909) 933-5228 Fax

Mentor Applications:
 Neil Nilchian, PE
 nnilchia@rctlma.org
 (951) 955-6782 Phone
 (951) 955-3164 Fax

OR to submit via mail send to:
 ASCE SB/Riv Mentorship Committee
 Attn: Neil Nilchian, Chair
 P.O. Box 124
 Riverside, Ca 92502

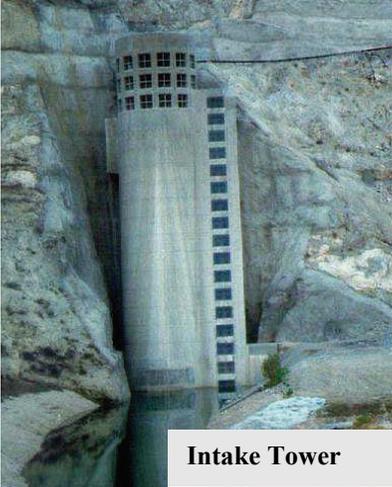
San Bernardino &
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 Branch
 Mentorship
 Committee
 Presents

If you have a business card advertisement in this newsletter and would like your company or public agency “Spotlighted” in our newsletter please contact our Branch Newsletter Editor, Matthew Addington, at (909) 477-2710 extension 4202.

Seven Oaks Dam Tour

By: Edwin Quinonez

On Friday, March 20th, members of the San Bernardino and Riverside Counties YMF were guided on a tour of Seven Oaks Dam, one of the largest earth filled dams in the nation. The dam was constructed by the U.S. Army Corps of Engineers to provide flood protection to San Bernardino, Riverside, and Orange Counties.



Intake Tower

The tour began with a short video on the construction of dam which provided a good understanding of its functionality and the magnitude of the project. After the video we rode a van along the embankment to the intake tower that stands 200 ft above the Santa Ana River bottom.

The highest water level recorded to this date occurred during the storm events early in 2005. The water pond reached an elevation 2392.4’ translating to approximately 292.4’ above the river bottom.

Next on the tour were the control room, the outlet channel and the plunge pool. The control room is used to monitor pond elevations and to control the outlet gates. The outlet channel is mainly used during large

storm events and consists of an 18’ wide by 14’ high rectangular section with several baffles at the downstream end to dissipate the energy of the outflow. There is also a 36” diameter used to convey low flows onto the plunge pool, which serves as an additional energy dissipation facility.



Plunge Pool and Outlet Channel

If you were unable to attend the tour, not to worry, our YMF group will be back next year!

Calendar of Events

Mentorship Committee Culminating Dinner	May 9th	Riverside Marriott
Storm-Water Committee Municipal SW & GW Discharge Regulations	May 13th	(See: ASCE Web-site for details)
YMF Cal Poly Pomona Softball Game	May 17th	(See: ASCE Web-site for details)
Whitewater Rafting	May 30th	(See: ASCE Web-site for details)

Membership Meetings:

Canyon Crest Country Club, 975 Country Club Drive, Riverside CA
 Registration/Networking: 11:30am—1:30pm
 Cost: \$25.00 per person (w/ reservation)
 \$30.00 per person (w/o reservation)
 Contact: Sanoubar Aghdam (909) 595-3760
 Email: sanou@LAEassociates.com

Thursday, May 7 Membership Meeting





937 S. Via Lata, Suite 500
 Colton, CA 92324
 (909) 783-0101
 (909) 783-0108 Fax
www.aei-casc.com

(left to right: Ceazar Aguilar, P.E., Chris Cummins, P.E.,
 Richard Sidor, P.E.)

Established in 1993 to provide professional engineering, surveying, and construction management to public agencies and the building industry, AEI-CASC is a corporation that has grown from a single office in Riverside to five offices serving California.

AEI-CASC continuously sets new standards for service by utilizing the latest in productivity tools and technology and by building teams with the expertise to respond to the changing world.

Branch Members Serving at the National Level

More than 6,200 civil engineers serve on more than 600 National Committees that produce the Society's annual convention, specialty conferences, publications, policies, building codes and standards, and other services that benefit the Society. These committee members are available to provide branch members with up-to-date information on activities and programs of their national committees; serve as a liaison between the National Committee and our branch; and/or facilitate and encourage involvement of branch members at the National level. To enhance the value of your ASCE membership, you have the opportunity to select membership in one of ASCE's technical specialty Institutes — **at no additional cost**. The Institutes work to advance the knowledge and practice of specific civil engineering specialties by focusing on the technical, educational, and professional issues within that area. Membership in one of ASCE's seven Institutes brings you together with other professionals within your specialty and provides you with a variety of additional resources.

Thanks to the following Section members who serve on Technical, Professional, Educational, Research, Board, and Institute Committees at the National level.

<u>COMMITTEE NAME</u>	<u>FIRST NAME</u>	<u>LAST NAME</u>	<u>CREDENTIALS</u>
State Government Relations	Michael	Thornton	P.E., M.ASCE
Underground Technology Research Council	John	Mac Donald	P.E., M.ASCE
Well Hydraulics	Sam	Gershon	P.E., F.ASCE
Blast Protection of Buildings	Kenneth	Morrill	P.E., M.ASCE
Precast Structural Concrete (W/ACI 550)	Clifford	Ohlwiler	P.E., M.ASCE
Automated People Movers Standards	David	Campbell	P.E., M.ASCE

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Mark Your Calendar

Stormwater Committee Meeting—

Synopsis: Potential sources of ground water contamination are numerous. Injection well, which carry and permanently place fluids underground, are a potential ground water contamination source if not properly sited, constructed and maintained.



Mentorship Culminating Dinner

Date: May 9th

Time: See ASCE website address below

Location: Riverside Marriott

Additional Info: See ASCE website for more information
<http://www.asce-sbriv.org/>

Stormwater Committee Meeting

Date: May 13th

Time: 6:00 pm

Location: Holiday Inn
2155 E. Convention Center Way
Ontario, CA 91764

Cost: [See Official flyer on project partners or Contact information below for details](#)

Deadline: May 6th at Noon

Additional Info: Bill Flores, Jr.
Bill.flores@hdrinc.com



c/o Matthew Addington, P.E., P.L.S.
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