



San Bernardino & Riverside Counties Branch

Los Angeles Section, Region 9 - Since 1953

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JUNE 2009

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President's Message

Despite being outspent 10 to 1 in favor of the propositions, the results of our most recent visit to the voting booth clearly was a surprise to the State Leadership. Unfortunately, it is not clear how our leadership will shift gears to make the necessary cuts. Fear must be running high within the State Bureaucracy. Naturally, we are now hearing anonymous sound clips warning of a variety of deleterious effects that will be caused by a lack of Education funding, which is the largest part of the budget (so they rightly expect the biggest cuts).

One would hope this is an opportunity to clean up and dump Government dead weight. It tends to accumulate in all organizations and as long as the cleaning doesn't eliminate everyone who actually knows what they are doing, the results can be beneficial.

My expectations are not quite as rosy. Knowledgeable people are also a threat to those wishing to

maintain control.

Will we wave good-bye to the people whose service made government and education work? I

think not yet. There are many good people in government making decisions that benefit everyone. There will be many problems associated with the changes that are coming, but I believe they will eventually make the necessary changes. There must be a way to retain those key personnel willing to serve with the wisdom and knowledge to provide those services on which we all depend.

With best wishes to all in our Engineering Community for your continued success

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



NEWSLETTER

Lighter Side**Wife or Mistress**

An architect, an artist and an engineer were discussing whether it was better to spend time with the wife or a mistress. The architect said **he enjoyed time with his wife, building a solid foundation for an enduring relationship.**

The artist said **he enjoyed time with his mistress, because of the passion and mystery he found there.** The engineer said, **"I like both."** "Both?" Engineer: "Yeah. If you have a wife and a mistress, they will each assume you are spending time with the other woman, and you can go to the lab and get some work done."

This Month in History

Navajo Bridge - Coconino County Arizona

Navajo Bridge spans Marble Canyon, 470 feet above the Colorado River in Grand Canyon National Park. It was considered the highest steel arch bridge in America when completed

Coconino County, Arizona
Completed 1929

Navajo Bridge spans Marble Canyon, 470 feet above the Colorado River in Grand Canyon National Park. It was considered the highest steel arch bridge in America when completed.

The Navajo Bridge (also known as the Grand Canyon Bridge) was built in 1929 by the Arizona Highway Department and provided a vital transportation link over the Grand Canyon between northern Arizona



and southern Utah. Construction commenced by building on one side of the canyon, then on the other, until the two sides met in the middle.

During construction, a ferry was essential for transporting men, tools, construction materials and heavy building equipment. However, on June 7, 1928, high waters, a weakened ferryboat, and worn cables

resulted in disaster. The ferry capsized with three men and a Model T Ford on board. Coconino County refused to replace the ferry, causing extensive construction delays. For the next seven months, construction equipment and materials were brought in by truck, requiring an 800-mile journey around the canyon.

Facts:

Navajo Bridge spans Marble Canyon, 470 feet above the Colorado River in Grand Canyon National Park and was considered the highest steel arch bridge in America when completed.

The 750-foot-long steel bridge includes a 616-foot, three-hinged spandrel arch main span. It replaced Lee's Ferry as the sole crossing of the Colorado River within a distance of 600 miles.

The bridge was functional for the era in which it was constructed. However, its load capacity of 22.5 tons and width of just 18 feet failed to serve the needs of modern vehicles. Studies began in the early 1990's to determine the best solution to the problem. Consideration was given to strengthening the bridge, but the costly option was deemed impractical. Several alternate sites were considered, but the final decision was to build a stronger and wider parallel bridge beside the existing structure. The new bridge was completed in 1995 and the original structure remains in service as a pedestrian crossing.



May Meeting Recap

On Thursday May 7, 2009 the ASCE San Bernardino & Riverside Counties Branch had their annual joint meeting with the American Public Works Association (APWA) Inland Empire Branch at Canyon Crest Country Club in Riverside.

Symeon Finch and Juan Tejada from ORCO Block Company spoke about **Aqua Bric** and **BASS** – an engineered storm water management system designed for onsite water infiltration, to trap first flush pollutants, provide detention under parking lots, promote ground water recharge and minimize land set aside for water retention. Their presentation addressed design and construction of projects as well as features and benefits of the system including the following: reduced impervious cover, increased infiltration, ADA, LID, and LEED compliance, minimal maintenance, ease of utility repair, more choice of color, longer life cycle.

For site specific help or copies of the ICPI design manual and software, contact Symeon Finch at ORCO Block Company 909-996-9055 or symeon.finch@orco.com

Tim Wilson recognized more than 15 ASCE members in the joint meeting audience and introduced Brian Wolfe as the nominated incoming President. Tim announced that nominations were open and read the slate of officers currently nominated. For the June Meeting, he requested that our membership submit nominations for the Engineer, Young Engineer and Project of the Year Awards.

State Legislative Update

CALIFORNIA

Legislation
AB645

This bill would require licenses issued by the Professional Engineering board to be renewed every 4 years, instead of every 2, and would double the maximum amounts of the license application fees.

Last Action: 5/11/09: Read 1st time in Senate. To Committee on Rules

The Metropolitan Transportation Commission has adopted a plan on how to spend \$218 billion in anticipated federal, state and local transportation funds in the nine-county Bay Area during the next 25 years. MTC officials said the vision for the so-called "Transportation 2035" plan is to support a prosperous and competitive Bay Area economy, provide for a healthy and safe environment and promote equitable "mobility opportunities" for all residents. Officials at MTC, which is the transportation planning, coordinating and financing initiative which provides incentives for cities and counties to promote future growth near transit in areas that are already urbanized. Public transit operations, maintenance, and expansion will receive almost two-thirds, or \$142 billion, of the revenues. Street, road, and highway maintenance will get about 30 percent, or \$66 billion, and roadway expansion will get about 5 percent, or \$11 billion.

Pleasanton Weekly 5/13

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matthew.addington@cityofrc.us

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rmoreno@rbf.com

Stormwater Committee

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Bill.flores@hdrinc.com

Assistant Newsletter Editor

Francis Gbondo
909-974-4900
fgbondo@rbf.com

Mentorship Committee

Neil Nilchian, PE.
(951) 955-6782
nnilchia@rctlma.org

Lighter Side

Software Engineer

A man was crossing a road one day when a frog called out to him and said: "If you kiss me, I'll turn into a beautiful princess". He bent over, picked up the frog and put it in his pocket. The frog spoke up again and said: "If you kiss me and turn me back into a beautiful princess, I will stay with you for one week." The man took the frog out of his pocket, smiled at it and returned it to the pocket. The frog then cried out: "If you kiss me and turn me back into a princess, I'll stay with you and do anything you want". Again the man took the frog out, smiled at it and put it back into his pocket. Finally, the frog asked: "What is the matter? I've told you I'm a beautiful princess, that I'll stay with you for a week and do anything you want. Why won't you kiss me?" The man said, "Look I'm a software engineer. I don't have time for a girlfriend, but a talking frog is cool."

Volunteer For Mentorship Committee

The Committee is actively pursuing a replacement for our Secretary who has accepted the position of Historian for the Committee. Please contact: Alfred Pedroza at Alfred.Pedroza@aecom.com for additional information.

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.

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Orange County, Calif., Water System Wins 2009 OCEA



Orange County wastewater purification facility, Fountain Valley, Calif.

For its creative, effective solution to water shortage challenges, the Orange County, Calif., Groundwater Replenishment System has been selected as the Outstanding Civil Engineering Achievement for 2009. With water demand soaring in southern California, Orange County needed a solution that was more cost-effective than importing water or desalination and would satisfy needs for decades to come. The county's Water and Sanitation District opted for a process that recycles and purifies wastewater and returns it to reservoirs and groundwater aquifers – one which also mitigates the impact of droughts. ASCE President Wayne Klotz calls the system "an excellent example of how civil engineering can contribute to a community's economic success, improve residents' quality of life and protect public safety." The award was announced and presented to Orange County water officials at the Society's OPAL Gala April 23.

- Find out more about the Groundwater Replenishment System – [read about it](#) and watch a [2009 Report Card water systems video](#) that shows how it works. See the [five other distinguished projects](#) that were contenders for the 2009 OCEA.

[View photos of the OPAL Gala](#), including the award-winning guests of honor. [Watch brief video profiles](#) with background on each of the Outstanding Projects and Leaders winners, the top OCEA project and five other nominees, plus the Pankow Award for Innovation and the Michel Award for Research winners.

Engineers Make the Case for 2009 Report Card's D Grade



Find out how civil engineering experts have justified the D grade they gave the nation's overall infrastructure in January. The rationales behind the grades in 15 categories of ASCE's 2009 Report Card for America's Infrastructure are available. Last winter, ASCE moved up the release of the Report Card, and its \$2.2 trillion funding estimate, to help Congress, President Obama and the nation focus on the need for infrastructure investment in the economic stimulus. 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.



San Bernardino & Riverside Counties Branch Mentorship Committee

P.O. Box 124, Riverside, California 92502

http://www.asce-sbriv.org/Mentorship_Committee/



Photo by: Alfred Pedroza, P.E. (AECOM)

THE MENTORING PROGRAM: BILLIARDS SOCIAL NIGHT

The San Bernardino-Riverside Counties Branch - Mentorship Committee hosted a Billiards Social Night at Dave & Busters on March 12, 2009 in Ontario, California.

A collection of Protégés and Mentors came out for the two hour social event. Many of the Mentor/Protégé pairs coordinated their efforts to participate in this fun and relaxing social event. In addition to the current members, a number of new prospective members and special guests were able to join-in on the fun. Mr. Jay Higgins, P.E. (URS Corp.-Los Angeles) current President elect of the ASCE Los Angeles Metro Section and Bill Flores, P.E. (HDR-Riverside), Chairman of the ASCE San Bernardino-Riverside Counties Branch Stormwater Committee and Jim Kinley, P.E. (Retired).

Food included buffet style Mesquite Barbeque chicken, traditional American Potato Salad, Corn on the Cob, Baked Beans and Dinner rolls. Libations included endless fountain drinks. Participants played pool in teams of two which allowed some to display and showcase their Billiard skills. During the evening, many participants took advantage of the networking opportunities. Many groups discussed the personal challenges in keeping and maintaining professional growth and development in this troubled economy. Later in the evening, the Mentorship Committee raffled off a collection of Dave & Busters Power Game cards.

Our special guest Mr. Jay Higgins praised the San Bernardino/Riverside Branches Mentorship Committee for the on-going efforts and encouraged joint support and efforts to host a Workshop for the entire ASCE LA-Section.

Currently, we are still looking for members to join the ASCE Mentorship Program. We are looking for young engineers to experienced and season professional engineers in all fields of Civil Engineering to help give back to their profession by passing the torch of knowledge and experience to young members. Please look out for our 2nd Workshop in Fall 2009.

To join the program, please visit our website listed above for further details. If you have any questions regarding the Mentorship Program, please do not hesitate to contact our Chairman, Neil Nilchian P.E., via email at nnilchia@rctlma.org.

Article by: Jessie H. Powell III, P.E. (URS Corp.-Ontario)

EVENT SPONSORS:



San Bernardino & Riverside County Branch Mentoring Program 1st Dinner Event on November 1, 2008

The American Society of Civil Engineers (ASCE) San Bernardino & Riverside Counties Branch Mentorship Committee hosted the Mentoring Program's first Semi-annual dinner at the Mission Inn in Riverside on November 1, 2008. The Dinner provided participants a chance to socialize and also featured two guest speakers sharing their experience about the value of mentoring. Once the 22 attendees were registered and spent some time



networking, Neil Nilchian introduced Mr. Mark Norton (Mentor, Former President of the ASCE San Bernardino & Riverside Branch) who is very supportive of the Mentoring Program and its expansion to other Branches. Mark then introduced both guest speakers: Mr. Garry Oskamp, and Mr. James Burns. Gary Oskamp is a Financial Strategist and Leadership Coach with GOcoaching, International. During dinner, Garry focused on a few major points such as: who can be a mentor or protégé, why mentoring is important (win-win situation for both mentor and protégé), how communication makes a difference,

and that a Civil Engineer who takes on a mentoring role is in fact shaping the future of our industry. The mentoring-protégé relationship helps to pass knowledge and experience to less senior professionals who then help to strengthen and reinforce the profession. Following Garry's presentation, Mr. James Burns gave a presentation on personal success from various aspects. James Burns is a tax attorney with two law degrees. James also served honorably in the United States Marine Corps' Force Reconnaissance, and authored the newly released book "The 3 Secret Pillars of Wealth". James spoke about key aspects such as having an accountability partner, losing negative habits, losing negative thoughts and losing negative people, and the importance of always having a peak moment in your day. James also shared what he called the 'Daily Four': 1) Visualize 2) Meditate/Contemplate 3) Affirm your aspiration and goals 4) Journal. James and Gary motivated and encouraged the audience to increase the number of mentors and protégés in the following year to share experiences and increase personal growth. The Mentoring Program currently has 30 participants and the Mentorship Committee will soon be asking for more Mentor and Protégés volunteers because the Program will be re-launched in May. The Mentoring Program helps to foster professional development of engineers during the early stages of their career by pairing them up with experienced engineers. The program offers protégés guidance that may not be available to them elsewhere and offers mentors an opportunity to give back to the engineering community. Mentors and Protégées typically meet one-on-one monthly but each quarter the Mentorship Committee organizes a social event to bring all of the participants together and the Semi-annual Dinner was one of these events. Please visit the Committee's website for additional information www.asce-sbriv.org/Mentorship_Committee.



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.



San Bernardino & Riverside Counties Branch Mentorship Committee

P.O. Box 124, Riverside, California 92502

http://www.asce-sbriv.org/Mentorship_Committee/

Committee Members:

Neil Nilchian, PE
(Chairman)
nnilchia@rctlma.org

Georgia Jeffers, PE
(Vice Chair)
Georgia.jeffers@jacobs.com

Jessie H. Powell, PE, CPESC,
CPSWQ, LEED AP
(Event Coordinator)
jessie_powell@wscorp.com

Alfred Pedroza, PE
(Secretary)
alfred.pedroza@aecom.com

Edwin Wen, PE, MS
(Treasurer)
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MENTORING PROGRAM: ANNUAL DINNER

The Mentoring Committee is pleased to announce the Culminating Annual Dinner. This is our 2nd dinner event since the program's kick-off in May of 2008. This is a great opportunity to interact with your Mentor or Protégé as we come together to mark the close of the of Mentoring Program's first year and its achievements. The dinner will feature the Honorable Mayor Paul S. Leon of the City of Ontario as our guest speaker. Please add this event to your calendars and coordinate with your Mentors/Protégés.

Date: Saturday, June 13, 2009

Time: 5:00 pm to 8:00 pm

Location: Doubletree Hotel (Keller Peak Room)

222 N. Vineyard Avenue

Ontario California 91764

(909) 937 - 0900

[View Map](#)

Cost: \$10 for Mentors and Protégés currently enrolled in the Mentoring Program; \$20 with a RSVP from prospective Mentors and Protégés members; \$30 at the door without an RSVP.

Reservation Deadline: June 5th at 5pm. RSVP now, seating is limited.

For additional information, please contact [Jessie H. Powell](#) at (909) 980-4000.



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Left to right: J. Will Kulikowski, Shuyu Liu, PE, Douglas Harriman, PE, CGWP, REA, Heather Hare, Joseph Kulikowski, PE, GE, Kim Olsen, Soma Balachandran, Ph.D., PE, Kristina Mohos, Nicholas Josten, EIT

GENTERRA Consultants, Inc. is pleased to announce the recent opening of their new Inland Empire office, located in the Turner Riverwalk Center in the city of Riverside. GENTERRA's consulting services include the planning and design of new, enlarged and modified dams and reservoirs, and the evaluation and rehabilitation of existing dams, of all types and sizes. services include Geotechnical Engineering, Earthquake Engineering, Hydrogeology, Inundation Studies and Dam and Reservoir Distress and Failure Investigations.



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.

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GENTERRA CONSULTANTS, INC.

Soma Balachandran, Ph.D., P.E.
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Principal Engineer

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Fax (909) 890-0467

20 Empire Drive
Lake Forest, CA 92630
(949) 768-8888
Fax (949) 768-5912

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

Merrell-Johnson Engineering, Inc.

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

E-mail: jburke@pencoeng.com

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www.tylin.com

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

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respalin@willdan.com www.willdan.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

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Mark Your Calendar

Board, I have reserved the Riverside Marriott for the June 24th meeting. We will be having the Chicken Margarita, with the vegetarians having Portabella Mushroom Ravioli. Does anyone have AV equipment to bring? If we don't, I would like to recommend to the Board that we consider purchasing a projector and screen, as it will minimize our ongoing costs for A/V rental and we should be able to recoup the cost within a year's budget.



General Meeting

Date: June 24th

Time: 11:30 am to 1:00 pm

Location: Riverside Marriott

Cost: \$30/person, \$35 w/o membership and \$15 for students

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

Mentorship Committee Meeting

Date: June 13th—Mentoring 1yr Milestone

Time: 6:00 pm

Location: Doubletree Hotel (Keller Peak Room)

Cost: See Official Flyer on page 9

Deadline: June 5th

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



c/o Matthew Addington, P.E., P.L.S.
Newsletter Editor
City of Rancho Cucamonga
Building & Safety Department
10500 Civic Center Dr
Rancho Cucamonga, CA 91730

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