

ASCE

AMERICAN SOCIETY OF CIVIL ENGINEERS
SAN BERNARDINO & RIVERSIDE COUNTIES BRANCH
LOS ANGELES SECTION , REGION 9-SINCE 1953

PRESIDENTS MESSAGE

January 2013



Happy New Year! I hope that everyone experienced a joyful Holiday Season. Another calendar year has passed and a new one has started. However, for your ASCE Branch we have just finished the first quarter of the business year.

With each New Year it is time to look ahead and see what is planned for the Branch. In January our meeting will focus on how the State's budget and the results of the recent election will affect Cities in the Inland Empire. In February will be the annual joint meeting with the Inland Empire Council of Engineers and Scientists, always a great meeting. The topic of discussion for the March will focus on a project to

move containers from the ports near San Pedro through a tunnel to speed distribution of products throughout the country while minimizing impacts to Southern California commuters. We encourage all of our membership to attend our general meetings not only for the great food but to also develop business and marketing contacts.

Coming up in February is Engineer's Week: an important week for all Engineers. Engineer's week is recognized in February in honor of George Washington. Every year your Branch coordinates a group of volunteers (Civil Engineer's such as yourself) to visit a high school near your office in the Inland Empire area to inform and educate interested junior and senior high school students of the great field of not only Civil Engineering, but all fields of engineering. We definitely need volunteers from different engineering disciplines to participate. Please email Brandon Reyes (breyes@rbf.com) your Branch Vice-President for more information and where you would like to volunteer.

Please see our calendar section of the Branch web page (<http://www.asce-sbriv.org/Calendar/calendar.html>) for additional information and upcoming activities in your Branch.

Did you know that there are over 700 members in your Branch! This provides great mentoring opportunities for younger engineers to attend and ask ques-

Continued on Page 5

NEWSLETTER

THE BIG DIG IN BOSTON



The Big Dig in Boston, Massachusetts, US, is a massive road infrastructure project which was undertaken to improve the flow of traffic, alleviating chronic congestion across Boston and the surrounding commuter areas, and to replace the outdated elevated Central Artery road that effectively split the city in half, alienating the North End and Waterfront neighborhoods from the economic life of the city.

The Central Artery / Tunnel Project (CA/T), undertaken by the Massachusetts Turnpike Authority, commenced in 1991. The cost of the project when completed in December 2007 was estimated at \$14.8bn. The actual cost of the project was made public in July 2012 by the Massachusetts Department of Transportation and is estimated at more than \$24bn. The state currently pays over \$100m annually in debt service for the project which is likely to continue till 2038. It still owes about \$9.3bn in both principal and interest.

The Big Dig proved to be one of the most technically-challenging infrastructure developments ever undertaken in the US and consisted of two major projects:

Existing Central Artery, an elevated six-lane highway, replaced by an extended subterranean highway, and a 14-lane two bridge crossing of the Charles River at the northern end

Extension of the Massachusetts Turnpike (Interstate 90) from its former end, south of downtown Boston, through a tunnel (Ted Williams Tunnel) under South Boston and Boston Harbor to Logan Airport Boston's Central Artery

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JANUARY MEETING

JOHN GILLISON

CITY MANAGER

City of Rancho Cucamonga

LOOKING AHEAD TO 2013

John Gillison was appointed as City Manager for the City of Rancho Cucamonga effective September 1, 2011. He served as the Assistant City Manager for the City of Rancho Cucamonga since 2009. Prior to taking over the position as Assistant City Manager, John was the Deputy City Manager for the Administrative Services Department, which includes the Finance, Human Resources, Risk Management, Geographic Information Services, Special Districts, Purchasing and Information Services functions. John served in that capacity from 2007 through 2009.

During his years in local government, John has worked in a Finance Department as a Management Analyst, in a Community Development Department as a Management Analyst, and in the City Manager's Office in three different communities, including as an Administrative Intern, Principal Management Analyst, Deputy City Manager and City Manager. He has experience in business license, planning and building and safety, redevelopment, parking permits, information services, geographic information services and human resources. Along the way he has also acquired a Bachelor of Arts in Political Science with a Minor in Criminal Justice, and a Master of Public Administration, both from California State University Fullerton. John also has a Juris Doctorate from Western State University College of Law and is a Licensed California Attorney.

LOCATION

Date: Wednesday, January 23, 2013

Time: 11:45am to 1:15pm

Location: Old Spaghetti Factory, 11896 Foothill Blvd, Rancho Cucamonga, Ca. 91730

Cost: \$25 members w/ RSVP
\$30 non-members or no RSVP
\$15 students

Deadline: Please reserve by January 17, 2013

Additional Info: Matthew Addington, P.E., P.L.S., C.B.O., Q.S.D.

matthew.addington@cityofrc.us, (909) 477-2710

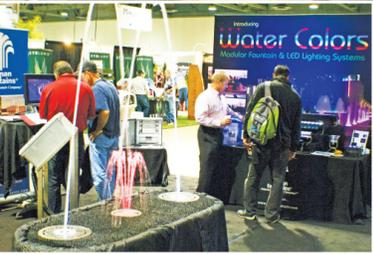
Friday & Saturday • February 8th & 9th



LA expo
long beach 2013

for landscape architects, specifiers & design professionals

the western trade show and educational conference
for landscape architects, specifiers and design/build professionals



2013 Landscape Architects' Expo

is ALL about Landscape Development & Design!

- 32 Educational Sessions
- Open Panel Discussion *The Future of Landscape Architecture*
featuring Mia Lehrer, FASLA; Stephanie Landregan, FASLA & Lynn Capouya, ASLA
- 6 Major Associations Represented
- LAF Charity Reception

- Latest Design Elements and Amenities
- Hardscape Design Center
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- New Product Showcase

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(909) 229-5143
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Newsletter Editor

Steven Ledbetter, E.I.T.
TKE Engineering and Planning
(951) 680-0440
sledbetter@tkeengineering.com

Secretary

Kenneth Cox, G.E.
Geocon
(951) 304-2300
cox@geoconinc.com

Past President

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AECOM
(714) 567-2498
Rita.Escobar@aecom.com

E-Week Volunteers:

We are looking for engineers willing to volunteer to speak in front of groups of high school or junior high kids about our profession. We at the local branch will organize a group of interested schools in the area, but if you have a nearby school in mind please let us know. If you would like to help or need more info, please contact Brandon Reyes.

Date: Friday, February 22nd 2013.

Contact: Brandon Reyes, Vice President ASCE,
breyes@rbf.com

Presidents Letter

Continued

tions of the senior engineers. Yes, we even have retired engineers who attend our meetings. As we can, we provide guest speakers with great knowledge of the area and directors of agencies who can provide marketing and networking opportunities' for both our members and the engineering firms they represent. We also have many engineers from the public side attending your Branch meetings providing an additional opportunity for networking.

As your Branch covers a large area, we balance the meetings between the two counties to make your commute to the meetings more convenient. Your Branch Board of volunteers is here to serve you, we ask that you participate and let us know what programs and services you would like your Branch to provide. Attending a Branch meeting is typically 2 hours a month of a networking opportunity, serving on a committee or the Board is typically 5 hours a month of service to your engineering community. Make a resolution this year to participate in your ASCE Branch this year. After all, isn't that why you are a member?

- Matthew Addington

THE LIBERTY QUARRY STORY THE CLOSING CHAPTER

A year ago, we reported that Granite Construction had appealed the 4 -1 vote by the Riverside County Planning Commission to deny Granite's application for the proposed deep-pit Liberty Quarry, on a 414-acre site immediately west of Interstate 15 and just north of the San Diego County border. The Board of Supervisors, in a controversial decision on February 16, voted 3-2 to uphold the Planning Commission action. But the battle was far from over: Immediately after confirming their original vote to deny the project, Supervisor John Tavaglione joined with Supervisors Benoit and Ashley to certify the Environmental Impact Report, leaving the door open for Granite to return with a new application for a modified project on the same property.

Shortly thereafter, the same three Supervisors proposed modifications to the County's fast-track development program to expand the definition of projects eligible for this abbreviated approval process, originally intended to promote projects that would encourage employment and economic development, to include surface mining operations along with new solar- and wind-energy projects. Under the process, projects are approved directly by the Board, sidestepping Planning Commission approval and some of the CEQA process.

As expected, Granite filed a slightly scaled-down version of their project in July, expecting that it would be fast-tracked. Also as expected, the same three Supervisors voted in September to approve the changes to the Fast Track process. In November, they voted again to consider the Liberty Quarry project in a public hearing in December.

Four lawsuits followed, from the City of Temecula and the citizen's group, SOS-Hills. However, in a dramatic press conference on November 15, the Pechanga Band of the Luiseño Indians announced that they had agreed to purchase the land from Granite for \$3 million. In a comprehensive settlement agreement, the Tribe will also pay Granite an additional \$17.3 million. As part of the Agreement, Granite has agreed not to own or operate a quarry within a 6-mile radius north of the quarry site, or within 3 miles to the South, before the year 2035.

Pechanga has claimed throughout the long and bitterly-contested battle that the quarry site includes the historic and legendary birthplace of the Tribe, and thus constitutes land sacred to tribal members.

The aftermath of the conflict continues. The four lawsuits, over the CEQA process and the fast-track issues, are still proceeding in the Courts; simmering resentment among some Southwest County residents has led to talk of portions of the County breaking away to join San Diego County.

As before, stay tuned.



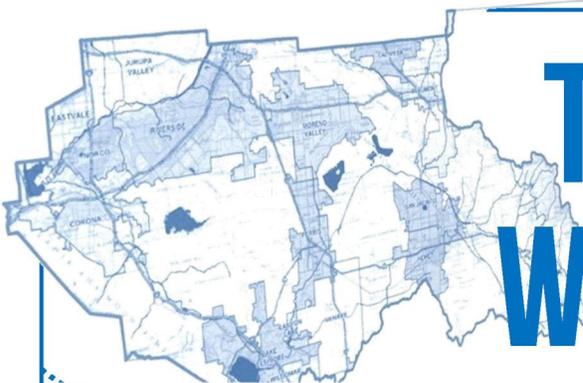
Nov. 15, 2012: Marc Macarro, Chairman of the Pechanga Band of the Luiseño Indians, announces the signing of an agreement with Granite Construction to purchase the Liberty Quarry land for Pechanga. The settlement, involving over \$20 Million, includes not only the land of the proposed quarry, but also development restrictions on Granite involving other quarry proposals within 6 miles of the site.

Bowling Night with San Bernardino/Riverside Branch and the Institute of Transportation Engineers

By: David Cortese

Do you enjoy bowling? Well everyone who attended the San Bernardino/Riverside ASCE Branch, YMF and ITE joint event at Brunswick Deer Creek Lanes in Rancho Cucamonga on December 5th sure did. The event brought together professionals, friends, and students from the SB/R ASCE YMF, ITE and the ASCE Branch members to meet, socialize and bowl in style. We had a great turn out and would like are looking forward to the next joint event and the opportunity to meet with our ASCE Branch and friends at ITE.





TRAINING WORKSHOP



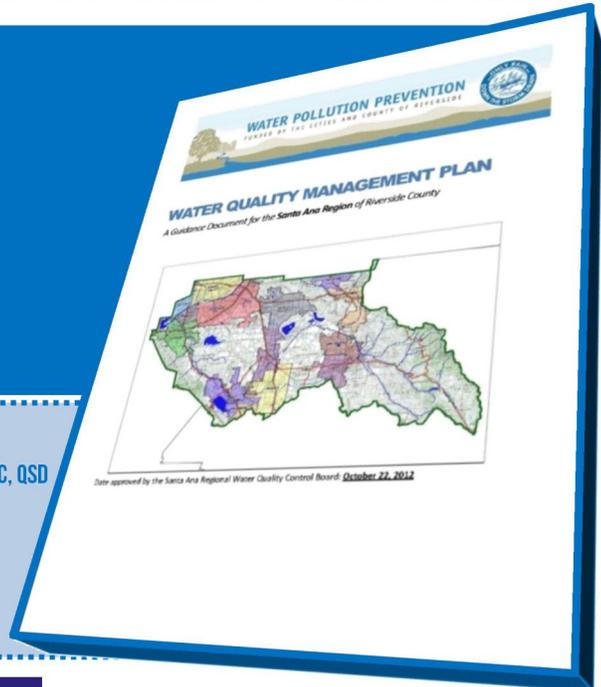
ASCE
LOS ANGELES SECTION
San Bernardino-Riverside Branch
YOUNGER MEMBER FORUM

SANTA ANA REGION WATER QUALITY MANAGEMENT PLANS (WQMP)

WHEN: MONDAY, JANUARY 28, 2013

**8:00 A.M. ~ 12:00 NOON
(7:30 A.M. REGISTRATION)**

**WHERE: CORONA CITY HALL
400 SOUTH VICENTIA AVENUE
CORONA, CA 92882**



NEW WQMP REQUIREMENTS IN EFFECT FOR PROJECTS APPROVED DECEMBER 6, 2012 OR LATER:

- WHAT WORKS FOR MOST PROJECTS
- AVOIDING COMMON MISTAKES
- USING THE NEW PROJECT-SPECIFIC WQMP TEMPLATE
- LOW IMPACT DEVELOPMENT SITE DESIGN
- SELECTING AND DESIGNING LID BMPS
- HYDROMODIFICATION COMPLIANCE

INSTRUCTORS:

**LISA SKUTECKI, PE, CPESC, QSD
(BROWN & CALDWELL)**

**DAN CLOAK, PE
(DAN CLOAK ENVIRONMENTAL CONSULTING)**

PLEASE DOWNLOAD AND PRINT THE FOLLOWING DOCUMENTS AVAILABLE AT:

- [HTTP://RCFLOOD.ORG/NPDES/SANTAANAWS.ASPX](http://RCFLOOD.ORG/NPDES/SANTAANAWS.ASPX)
- WQMP APPROVED OCTOBER 22, 2012
- EXHIBIT B: PROJECT-SPECIFIC WQMP TEMPLATE
- SOURCE CONTROL CHECKLIST
- EXHIBIT E: WQMP APPLICABILITY CHECKLIST
- EXHIBIT H: GLOSSARY

Brown AND Caldwell

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← **MOST OF THESE DOCUMENTS ARE ALSO AVAILABLE AT:**
[HTTP://WATERBOARDS.CA.GOV/SANTAANA/WATER_ISSUES/PROGRAMS/STORMWATER/DOCS/RCPERM/IT/WQMP/FINAL/SANTA_ANA_WQMP_FINAL.PDF](http://waterboards.ca.gov/santaana/water_issues/programs/stormwater/docs/rcperm/IT/WQMP/FINAL/SANTA_ANA_WQMP_FINAL.PDF)

(CLIP & SEND)

**SANTA ANA REGION WQMP TRAINING WORKSHOP (JANUARY 28, 2013 SESSION)
FIRST COME, FIRST SERVED – LIMITED TO 50 ATTENDEES
REGISTRATION COST: \$60 PER PERSON (NON-MEMBERS) / \$45 PER PERSON (ASCE MEMBERS)
CONTINENTAL BREAKFAST INCLUDED.
ONLY CHECKS ACCEPTED – NO CREDIT CARDS – MUST BE PAID PRIOR TO EVENT
MAKE CHECKS PAYABLE TO: ASCE SB/R YMF**

NAME OF ATTENDEES: _____

TOTAL NUMBER ATTENDING: _____ **AMOUNT ENCLOSED:** \$ _____

CONTACT NAME: _____ **CONTACT PHONE NUMBER:** _____

CONTACT EMAIL: _____

MAIL FORM & CHECK TO: RCFC & WCD
ATTN: JULIANNA GONZALEZ
1995 MARKET STREET
RIVERSIDE, CA 92501

QUESTIONS? CONTACT: JULIANNA GONZALEZ
JULIANNAGONZALEZ@RCFLOOD.ORG
951.955.8064

Presentations to Redlands High School AVID Classes

By Sarah Watrous, P.E.

One of the best ways to positively affect a community is to inspire and encourage youth. Many youth have few positive influences in their lives and many don't know about opportunities in engineering. The AVID program at high schools provides inspiration, information, and discipline to high school students to encourage and help them get into four year universities. On Friday, November 30, 2012, the Riverside/San Bernardino Branch presented the field of civil engineering and the "college experience" to high school AVID classes to inform students about civil engineering and to inspire the next generation.

During the course of one school day, Julianna Gonzalez and I presented to five classes periods (two classes freshmen classes, one sophomore class, one junior class, and one senior class) and Robert Vasquez joined us for two class periods. We showed them a video that summarizes some of the ways civil engineers make life easier, presented all the branches of civil engineering, and held a question and answer session. Throughout the presentation, we talked about our college experience, what inspired us to become engineers, and encouraged them to look into becoming a civil engineer or to look into other technical fields. There were lots of good questions asked throughout the day, showing that the students were paying attention and thinking about the information.



At the end of each presentation, we invited the students to get a taste of civil engineering now by participating in the 2013 Popsicle Stick Bridge Competition (PSBC). The PSBC is a competition among high school students throughout southern California (Orange, Los Angeles, San Bernardino, and Riverside Counties) to see not only who can build the strongest bridge out of popsicle sticks and glue, but who can also best present their bridge design. Some students and teachers showed interest in PSBC and we hope to see Redlands High School participate in this years competition.

December 3, 2012

Dear Julianna Gonzalez,

I think it's cool how you were in A.V.I.D from 9th - 12th grade. I feel like you can relate to us. Cal Poly is a good school this college is in my top 5 colleges to go. I hope you design work well it sounds like a great idea. So thank you for coming to our class and giving us information on what a civil engineer is.

Sincerely,
Samantha Lopez

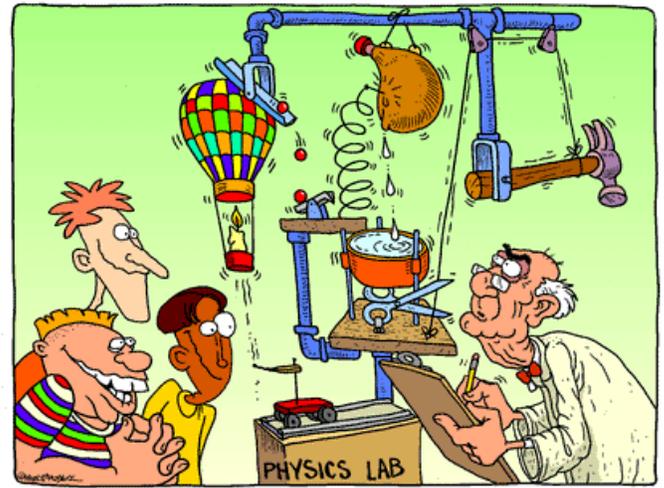
December 3, 2012

Sarah,

I appreciate you taking your time to come and talk to our class. You taught me that civil engineering plays a big role in our everyday life. You and Julianna showed me that math can come in handy later on in life. So thank you again for coming to our class and teaching us some cool and interesting facts.

Sincerely,
Reyna





Illustrations by Rand Kruback

Lighter Side

The Big Dig

Continued

The elevated Central Artery (Interstate 93) was built in 1953 and opened in 1959 with six lanes to comfortably accommodate 75,000 vehicles a day. However, it has regularly carried in excess of 200,000 vehicles a day. As a result, central Boston was subjected to traffic jams for more than 10 hours a day (a waste of over \$500m per year on fuel burnt by idling engines and late deliveries).

The elevated highway was demolished, freeing up 29 acres for attractive boulevards and parks, and was replaced by an eight to 10-lane underground expressway which leads into a 14-lane, two-bridge crossing at the Charles River.

The road system was designed and constructed to accommodate 245,000 vehicles each day.

The northbound Central Artery tunnel started to carry traffic in March 2003, while the southbound lanes were opened in December 2003, allowing for the completion of the largest of the Charles River bridges. Eight lanes were open (four northbound and four southbound) at the end of 2003, with the final two lanes opened in early 2005.

The project has incurred criminal arrests, escalating costs, leaks, poor execution and use of substandard materials. The Massachusetts Attorney General demanded that the contractors refund taxpayers \$108m for 'shoddy work'.

There were problems with the tunnel as far back as 2001. The Massachusetts Turnpike Authority was aware of many thousands of leaks in the ceiling and wall fissures causing extensive water damage to steel supports and fireproofing systems, as well as also overloading the drainage systems.

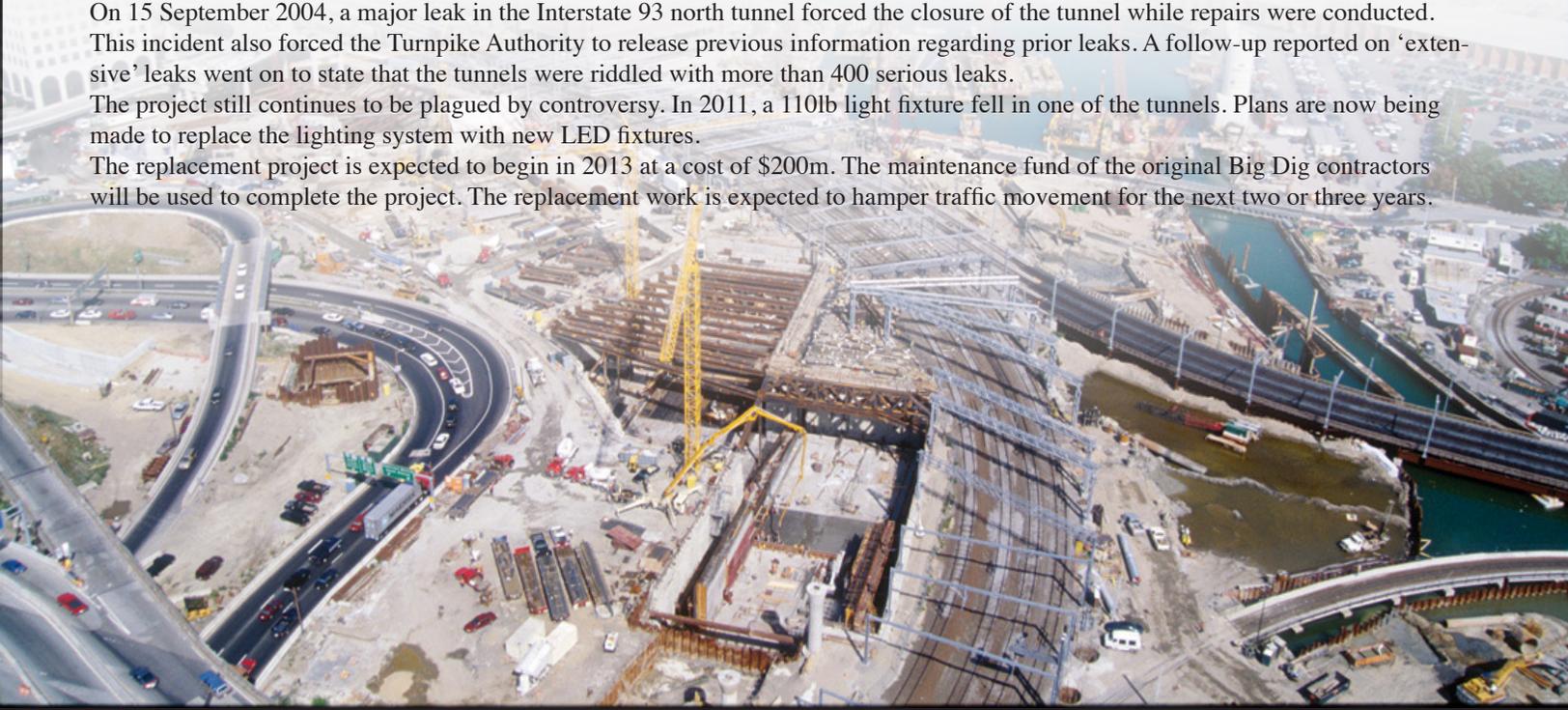
An initial \$10m contract, signed off as a cost overrun, was used to repair these leaks. Many of the leaks were found to be a result of contractors such as Modern Continental failing to remove gravel and other debris before pouring concrete.

On 15 September 2004, a major leak in the Interstate 93 north tunnel forced the closure of the tunnel while repairs were conducted.

This incident also forced the Turnpike Authority to release previous information regarding prior leaks. A follow-up reported on 'extensive' leaks went on to state that the tunnels were riddled with more than 400 serious leaks.

The project still continues to be plagued by controversy. In 2011, a 110lb light fixture fell in one of the tunnels. Plans are now being made to replace the lighting system with new LED fixtures.

The replacement project is expected to begin in 2013 at a cost of \$200m. The maintenance fund of the original Big Dig contractors will be used to complete the project. The replacement work is expected to hamper traffic movement for the next two or three years.



ASM – ASCE – NACE TEMECULA COMBO MEETING

January 31, 2013 Thursday Dinner Meeting



Organizers

Eduardo Hernandez
Vollmer-Gray Labs
ehernandez@vglabs.com
Cell: 951-215-6399

Jaime Valencia
Eastern Municipal
Water District
valenciaj@emwd.org

Hanna Hernandez
H&R Block
hanna@finnfest2011.com

Future Presentations

1/31/2013 - Mark Norton –
Santa Ana Watershed Project
Authority

2/28/2013 – Matt Francis –
MIC (Bacteria) Corrosion
Mitigation

Topic:

“Funding Opportunities for Water Infrastructure”

By: Mark Norton, PE, Santa Ana Watershed Project Authority

TIME:

5:30 PM Social Hour 6:00 PM Dinner
6:30 PM Program 7:00 PM Adjourn

Location:

Pat & Oscar's, 29375 Rancho California Road, Temecula, CA
(951) 695-2422 Cost: \$20.00

MENU:

Pizza, Chicken, Salads

PLEASE RSVP by Wednesday, Jan 30, 2013 but walk-ins are welcome.
Contact Eddie Hernandez to RSVP via email at ehernandez@vglabs.com

Presentation attendance counts for (1) professional development contact hour.

Come learn about funding opportunities to support water infrastructure through the integrated regional water management programs and plans.

Mr. Norton holds a Bachelors of Science in Civil Engineering and a Masters in Public Administration.

Mr. Norton serves as the Water Resources and Planning Manager for the Santa Ana Watershed Project Authority (SAWPA), and as the Authority Administrator for the Lake Elsinore and San Jacinto Watersheds Authority (LESJWA). Mr. Norton currently serves as a ASCE Region 9 (California) Governor and Chair of the ASCE Region 9 Water & Environment Committee.

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Available space

Please see contact information below to have your companies business card displayed here.

If you'd like to have your business card or company information listed in the Professional Directory, Please Contact: The Branch Treasurer, John B. Rogers at 951.698.1830, or email at jrogers@cleengineering.com

January 2013

- January 23 Branch General Meeting at Spaghetti Factory, Rancho Cucamonga.
- January 25 -27 ASCE Workshop for Section and Branch Leaders, Sacramento.
- January 28 Joint Branch and YMF WQMP Workshop, Corona City Hall, Corona.

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.

NEWSLETTER INFORMATION

Publisher:

ASCE San Bernardino-Riverside Counties Branch
Lenore Gueste
7211 Haven Ave E205
Alta Loma, CA 91701
Phone: 866-220-5908 (option 2)
Email: lagueste@jgwdsolutions
Typesetting, layout & Printing: Jgwdsolutions

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1/4 Page (per issue)	\$75



Editor:

Steven Ledbetter
951.680.0440
sledbetter@tkeengineering.com

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John B. Rogers, PE
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