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President's Message



Today we voted. I'm not really a fan of politics, I tend toward the conservative and this was a particularly difficult year for the party in red. Looking at the voter's pamphlet I see a few social related items -but most importantly, I do find it difficult to ignore the various Bond Measures and Representatives that directly affect our Engineering profession.

One simply cannot deny the link between Government and Engineering both large scale and small.

It's getting late and I see that McCain has honorably conceded to Obama as the Media predicted. What surprised me was Obama's election night speech. The obligatory accolades to his team and opponents was no shock.

He quoted both MLK and Lincoln most effectively - but it was his story about a 106 year old Grandmother voter that really drove home his message of Change. He chronicled her life and the evolution of American culture she witnessed. He started by pointing out she was born in the second generation after the end of slavery - without cars or planes and he ending citing the Moon Landing and the incredible progress made in Technology

and Science

It is the enormous reliance by our Civilization on Engineering and acknowledgment of the importance of technology as a catalyst for change. We may see it as just a "Civil Engineering" job - but the effects of our job are far reaching and are a greatly positive force for mankind in our world.

In February 2009, the LA Section of ASCE plans to have a symposium and make a trip to talk to our legislators in Sacramento. Chris Turnage and Terry Renner, immediate Past Presidents from our San Bernardino/

Riverside Counties Branch will attend. If you, as a member of our Branch have specific engineering

(continued on page 2)

President's Message

(continued from page 1)

issues you would like us to emphasize, please feel free to email me directly.

Please plan to attend the next Membership here in November meeting Caltrans will be speaking about the I-215/60/91 interchange and possibly other projects. It would be great to see you there!

With sincere respect to the Honorable Men and Women devoted to the Profession of Civil Engineering and the enhancement of our Environment, Public Safety, and Service in ASCE,

Timothy Wilson PE, RA, M. ASCE
*President, San Bernardino County
 Riverside Branch of the L.A. Section*

Company Spotlight/Project

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.org.

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

Membership Information

Type of Membership and Annual Dues (National)

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

Section (Branch) Dues \$45/year

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

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

Publisher: San Bernardino-Riverside Counties Branch American Society of Civil Engineers
 Design and Published by Shirley Kerr (Newsletter Design Specialist) (951) 688-8046.
 Identification Statement: ASCE San Bernardino & Riverside Counties Branch News is published periodically by the San Bernardino & Riverside Counties Branch, American Society of Civil Engineers.
 Annual subscription rate: San Bernardino & Riverside Counties Branch of ASCE members \$45 (included in dues).
 POSTMASTER: Address Correction Requested. Return Postage Guaranteed. Send mail to Editor at address shown at right.

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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
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October Luncheon Meeting ... Permeable Pavements

Our October luncheon was a combined meeting with the Storm Water Committee. The lunch was hosted and sponsored by the ORCO Block Company at their Riverside facility. The guest speaker was Chuck Taylor with Advanced Pavement Technology from Oswego Illinois.

Mr. Taylor believes that the permeable pavement industry has a lot of growth potential. In addition he explained the differences between permeable, pervious and porous pavements. The permeable pavement industry also referred to as pavers, or segmental concrete pavement is growing about 8% per year.

Land Developers, architects, engineers, and building owners are recognizing ecological paving systems as important elements to their new projects. They find these systems ecological, as they improve a site's water quality because they allow rainwater infiltration and natural groundwater recharge.

Property owners are finding flexible pervious paving systems to be economical. Since these systems often comply with the EPA's Phase II Rule, zoning officials who are aware of the benefits may waive the requirement for retention or detention ponds. For less than the additional cost of a flexible pervious paved parking lot, developers quite often discover they can reduce construction costs by eliminating or reducing the size of drainage and retention systems. Most owners focus on the benefit they receive from the greater efficiency in land use.

Another factor in the increasing focus on flexible pervious paving systems is its inclusion in the United States Green Building Council's Leadership in Energy and Environmental Design (LEED) rating system for new commercial construction. The committee responsible for overseeing the nation's fastest-growing building ecological rating system has made storm water containment a high priority when assessing a site's environmental performance.

Designers usually receive LEED credits for selecting pervious paving systems in several categories. Reviewers can award credits for using pervious paving systems in storm water management if it reduces runoff. Designers also can be rewarded when they use a pervious system to help treat water before release. In some cases, using a pervious paver system can earn a credit because some pervious service designs also help reduce potential soil loss and contain the release of suspended solids. Public Works Officials are also recognizing the ecological benefits.

The use of permeable pavers is increasing all across the United States. Advanced Pavement Technologies has helped by developing the Bio-Aquifer Storm System (BASS), a flexible, segmental paver system. Project engineers can use the BASS method of construction to expand the base design and to integrate specifically designed pavers into an engineered system that allows for collecting storm water runoff and supporting heavy axle loads for roads and parking lots.

In addition, due to the types of aggregate used, a natural filtration process will occur, and pollutants that are removed from the runoff will be broken down by bacteria contained in the aggregates.

A paver's shape is key to any flexible pervious pavement's success. Producers need to refocus their efforts to produce mechanically-installed, contractor-friendly pavers. Tolerances suitable for hand installed operation are not tight enough for mechanized equipment. Another driving force in new shapes is the hunt for a smoother surface. The Americans With Disabilities Act has caused the paver industry to pay closer attention to surface features and elevations. ASCE

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ASCE 2008 Awards

This year your branch awarded 4 project awards. Two project awards were highlighted in last month's newsletter. Here are our two Honorable Mention awards.

EVMWD New Lighthouse Liftstation

The Elsinore Valley Municipal Water District Board of Directors approved the award of contract for the Canyon Lake Lighthouse Lift Station Replacement project to Mingus Construction for \$3.67 million. The new Liftstation will be located at 22650 Lighthouse Drive and will replace the original lift station built in 1968.

The original Lighthouse Liftstation was designed to handle up to 1,060 gallons of sewage per day. The original facility has exceeded its useful life and the new facility will increase capacity to 1,800 gpm, correct deficiencies, and upgrade the lift station to

ASCE Urges House Panels to OK Infrastructure Stimulus

As a nationally recognized authority on infrastructure issues, ASCE again has been sought by Congress to offer expert testimony on the need for infrastructure funding that would be included in a new economic recovery and job creation package.

On October 29, ASCE President David G. Mongan, P.E., F.ASCE, spoke before the House Ways and Means Committee, while Andrew Herrmann, P.E., F.ASCE, SECB, chairman of ASCE's 2009 Report Card Advisory Council, testified before the House Transportation and Infrastructure Committee. Both witnesses detailed the nation's urgent infrastructure challenges as identified in ASCE's Report Card for America's Infrastructure, and called for up to \$40.7 billion in infrastructure aid. **ASCE**

current standards. Other improvements at the new site will include better facility access and emergency storage which will result in fewer service calls for repair. **ASCE**

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Omnitrans

Director of Integrated Project Management Office

As the largest public transit agency serving the San Bernardino Valley, Omnitrans carries over 15 million passengers each year throughout its 480-square mile service area that includes 15 cities and portions of the unincorporated areas.

An enthusiastic and driven transit professional is needed to lead the Integrated Project Management Office and work on the exciting sbX Project. Spanning 16 miles with an investment of over \$164 million, the E Street Corridor sbX bus rapid transit service will improve the link between the cities of San Bernardino and Loma Linda.

This position is a stellar opportunity for candidates interested in overseeing a large and complex division responsible for conducting multiple projects simultaneously. A knowledgeable, capable and technically experienced professional is sought.

Solid organizational and project management skills are vital to a candidate's success in this search. A Bachelor's degree in planning, transportation planning, urban planning, economics, public administration, or a related field is required.

A minimum of ten years experience is required, with increasing levels of responsibility with a public transit agency or local state or federal jurisdiction with duties in transit or urban transportation planning. This position requires significant knowledge of the principles and practices of transportation planning and economics.

The salary range is \$9,335-\$12,000 monthly and the Agency also offers an attractive benefits package. To apply for this opportunity online, please visit our website at www.bobmurrayassoc.com. If you have any questions, please contact **Regan Williams** at (916) 784-9080. A detailed brochure is available.

Filing Deadline: Apply ASAP – the position will remain open until filled.

Cucamonga Valley Water District Receives ASCE Award

Rancho Cucamonga, CA – On October 14, 2008, the Cucamonga Valley Water District received notice from the American Society of Civil Engineering (ASCE), San Bernardino and Riverside Counties Chapter, they would be recognized in the ASCE annual awards program. The ASCE Project of the Year is an award given out by various chapters of this nation-wide organization. The Cucamonga Valley Water District (CVWD/ District) received Honorable Mention in the Project of the Year category for their Lloyd W. Michael Water Treatment Plant Boosting Chain Project.

The CVWD's Lloyd W. Michael Water Treatment Plant (Treatment Plant) provides water throughout the service area. CVWD wanted to better support the Treatment Plant by providing a backup water supply to the plant. There were several reasons this Project was significant for CVWD. These included planned and emergency pipeline shutdowns of the Metropolitan Water District's (MWD) Rialto Feeder, anticipation of MWD's Dry Year Yield Program, and potential drought reductions in State Project water.

The Boosting Chain Project required the CVWD to construct two booster pump stations and install steel pipe to transport water to the Plant to provide the flexibility to move groundwater from CVWD's wells in the southern portion of the service area to the upper northern portions of the service area.

"One of the core drivers of this project was to construct a system that provided reliable water supply to CVWD customers," commented John Bosler, Director of Engineering for CVWD. *"This Project allows CVWD to reduce the use of imported state water, a key component to long-term stability in our region as well as the state, and allows CVWD to better utilize local water supplies."*

The Project was unique in both design and construction and was set on a fast track schedule for completion, beginning in Sep-

tember 2007 and completed by February 2008, with the plan to operate the facility on generator power by February 2008 for a planned MWD pipeline shutdown. CVWD's in-house engineering staff completed the planning and civil/mechanical/process design of the project, and served as construction managers, performed construction inspection, and acted as the general contractor.

The project presented challenges during construction. These included construction occurring in front of two schools and the need to minimize impacts on the community. In order to do so, the CVWD contractor was required to perform a major feat, installing 2,300 linear feet of 24-inch pipe in ten days. The contractor committed crews to the project and exceeded expectations by installing 4,700 linear feet of pipeline during the ten day period. Construction on the Boosting Chain Project was a partnership between CVWD staff and the Contractor with time saving ideas implemented in order to keep the project on track.

"This Project was a success because CVWD and the contractor stayed focused and kept a 'can do' attitude that it could be accomplished," stated James V. Curatalo, Jr., President of the CVWD Board of Directors. *"Project's like this continue to support the District's mission of providing a reliable water source for all customers, and CVWD will continue to identify these types of projects in the future."*

CVWD imports over 50% of the District's water from northern California, so constructing this infrastructure to supply additional water to the Treatment Plant was critical. For more information about the CVWD, please visit www.cvwdwater.com or call (909) 987-2591. **ASCE**



We are thankful for
each and every one of
our Members.

Happy Holidays!

Great Civil Engineers in History ... Bay Bridge

San Francisco to Oakland, California
Constructed 1933-1936

Ever since the Gold Rush days of the 1850s, San Francisco Bay area residents and businesses had lobbied for a bridge joining San Francisco and Oakland. Early studies indicated that the bridge was impractical and infeasible; but in October 1929, President Herbert Hoover (himself an engineer) and California Governor C. C. Young appointed the Hoover-Young San Francisco Bay Bridge Commission to study the question more closely. The Commission concluded not only that the bridge was necessary to the development of the area, but that it was "entirely feasible from economic and construction viewpoints."

Local residents marveled as the Bay Bridge



went up in two colossal segments, linking Yerba Buena Island to the two shores. The bridge officially opened on November 12, 1936, with a four-day celebration of one of the most remarkable engineering feats of its time. **ASCE**



Transportation Engineering/Public Works Project Managers – Irvine & Ontario, California

RBF is seeking Project Managers to lead a team of engineers and design staff in the development of technical transportation design work associated with Caltrans freeway, highway and local roadway improvement projects. Position requires a BSCE, PE, and 7+ years of progressively responsible experience in the design and management of transportation/public works projects. A strong background in AutoCAD and/or Microstation is essential.

Bridge Design Project Engineer - Irvine, California

RBF has an additional need for an experienced Project Engineer to work on newly awarded state highway design projects. Requirements include 5+ years experience, a career focus in bridge design and experience in bridge project development - initial studies (APS) to final PS&E for Caltrans reviewed projects. Position requires California PE and proficiency in preparation of design calculations, quantities, estimates and specifications.

RBF offers excellent compensation, benefits packages and relocation assistance.

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Independent Panel Submits Report on ASCE Assessment Procedures



Sherwood
Boehlert Task
Force Chairman

An independent task force, created at the behest of ASCE President David Mongan to examine ASCE's procedures for conducting engineering studies of natural and man-made disasters, has submitted its findings to the Society.

After several months, the task force headed by former U.S. Rep. Sherwood Boehlert delivered conclusions and recommendations in four key areas. These include ways the Society can address transparency in our policies on such studies, how the studies are funded, the interaction between study teams and the media, and ways to mitigate any potential or perceived conflicts of interest. **ASCE**



San Bernardino & Riverside County Branch Mentorship Committee

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Mentoring Program Seeking Mentors

The Mentoring Program is off to a successful start in its first year; however the program is still growing and we currently have three protégés in need of a mentor. The goal of the Mentoring Program is to help develop young engineers once they have graduated and are working full-time.

The Mentors We want you to be a mentor whether you are an engineer with just a few years experience or an engineer who has worked in the industry for over 20 years. Either way you have knowledge that can benefit less experienced engineers.

The Protégés Your protégé could be a recent graduate just entering the workforce or even a licensed engineer with several years of experience who would like to be mentored by a more experienced engineer.

Program Benefits 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 and allow protégés to learn what it takes to become a leader through experiences and wisdom of their mentor.

Participation We request that you commit to working with your protégé for the duration of the program. It is recommended that you and your protégé 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.

For additional information, please visit our above web site.

3rd Annual

California Infrastructure Symposium &
ASCE Region 9 Awards Dinner

Sacramento, California

The Symposium will feature outstanding speakers from:

- *Governor's Office*
- *California Legislature and Agencies*
- *Federal Agencies and Several Experts*

Infrastructure topics to be featured are:

***Water, Transportation, Bridges, Bond Measures
Sustainability and so much more...***

Whether you are in the private or public sector, this all day beneficial event will provide you with new insights, updated information and a great opportunity to re-work with your fellow ASCE members. It is also a day to highlight and celebrate the best of California's ASCE Civil Engineers, Projects and more.



Save the Date:

February 24, 2009!

ASCE[®]
 American Society of Civil Engineers

You might be an engineer if . . .

- . . . you have no life and can prove it mathematically.
- . . . you enjoy pain.
- . . . you know vector calculus but you can't remember how to do long division.
- . . . you chuckle whenever anyone says "centrifugal force."
- . . . you've actually ever used every single function on your graphing calculator.
- . . . when you look in the mirror, you see an engineering major.
- . . . it is sunny and 70 degrees outside, and you are working on a computer.
- . . . you know how to integrate a chicken and can take the derivative of water.
- . . . you think in "math."
- . . . you hesitate to look at something because you don't want to break down its wave function.
- . . . you have a pet named after a scientist.
- . . . you laugh at jokes about mathematicians.
- . . . you can translate English into Binary.
- . . . you can't remember what's behind the door in the science building which says "Exit."
- . . . you have to bring a jacket with you, in the middle of summer, because there's a wind-chill factor in the lab.
- . . . you are completely addicted to caffeine.
- . . . you consider any non-science course "easy."
- . . . when your professor asks you where your homework is, you claim to have accidentally determined its momentum so precisely, that according to Heisenberg it could be anywhere in the universe.
- . . . the "fun" center of your brain has deteriorated from lack of use.
- . . . you understood more than five of these indicators.
- . . . you make a hard copy of this list and post it on your office door.
- . . . you know the glass is neither half full nor half empty; it's simply twice as big as it needs to be.

from mduffin3

External Review Panel Issues Final Comments On IPET New Orleans

Three years after Hurricane Katrina roared ashore, and in the wake of Hurricane Gustav, ASCE's External Review Panel has issued its final set of comments on the Interagency Performance Evaluation Task Force's New Orleans analysis of Katrina's impact.

While the ERP noted significant improvement over earlier drafts of the IPET report, and

found little fault in the report's technical merits, the group did take issue with the unnecessary softening of a few of the report's assessments.

The ERP also continued to call for greater clarity in IPET's risk assessment, due to its essential impact on long-term protection for the region. **ASCE**

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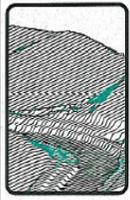
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ASCE Regular Monthly Meeting

Date	Wednesday November 19
Topic	I-215/60/91 Interchange
Speaker	Cal Trans Representative
Time	11 am Registration 11:30 am Lunch/Program 1:30 pm Adjournment
Location	Mexicali Restaurant (951) 781-6682 1690 Spruce St. (corner Spruce & Chicago) Riverside, CA 92507
Cost	\$25.00 Members with RSVP \$35.00 Non-Members and no RSVP Students discount is available

Reminder

**The ASCE newsletter will not be
published in December.
See you on January 21
for our next meeting.**



c/o Matthew Addington, P.E., P.L.S. ASCE
Newsletter Editor
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