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January 18 - Whittier
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January 19 - Dublin
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For more information contact Serena Miller
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or visit: www.cwea.org/conferences



Easements for Wastewater Facilities

A workshop sponsored by the CWEA/SARBS Engineering Committee

Date: **December 8, 2010**
Time: **8:00 a.m. – 12 noon**
Cost: **\$50.00**

Seating is limited to the first 50 participants that sign up

LOCATION:
Irvine Ranch Water District Learning Center
3512 Michelson Drive
Irvine, CA 92612
Map and directions will be sent to all registrants



For Reservations Contact:
Brian Peck (949) 234-5411
bpeck@socwa.com

Academy of Environmental Engineers 2010 Annual West Coast Event: Excellence in Environmental Engineering

By Wendy Wert

On September 23, 2010 the American Academy of Environmental Engineers (AAEE) hosted their annual West Coast Event titled *Excellence in Environmental Engineering (E3)* at the Metropolitan Water District's (MWD) headquarters in Los Angeles. The 2010 AAEE West Coast Event began with al fresco networking in the patio area. Guests then proceeded to the MWD boardroom for the technical portion of the program.



Benita Horn and Darlene Lilly (lt) Deb Bogdanoff and Mischelle Mische (ctr) Anne Carayon, Dwain Tucker, and Pei-Chin Low (rt)

AAEE Vice President Mike Selna welcomed attendees with a brief overview of the Academy. A primary objective of the Academy is to certify environmental engineers in their area of expertise, which include, Air Pollution Control, General Environmental Engineering, Hazardous Waste Management, Industrial Hygiene, Radiation Protection, Solid Waste Management, Water Supply/Wastewater Engineering and most recently Sustainability. Board Certification is the next step beyond Professional Engineering licensure. Annually the Academy administers the Excellence in Environmental Engineering® Competition to identify and reward achievement in the field of environmental engineering. This year's event showcased two Southern California international E3 award-winning projects.



Attendees enjoy dinner (lt) Attendees network in the patio area of MWD's Los Angeles headquarters (rt)

Vice President Selna introduced the first Speaker, Chairman of the Board of Directors for the Metropolitan Water District, Tim Brick. Chairman Brick serves as a passionate water quality advocate through local, state, and federal associations. He is a Director for the national Alliance for Water

Efficiency, an Advisor to the Water Resources Center at the University of California Berkeley, and a key developer of MWD's World Water Forum, which provides global water education grants to Southern California colleges. Chairman Brick's presentation shared key water-enhancing strategies from his substantial experience.



Featured Speaker, Dr. Kent Sorenson, Jr. of CDM (lt) Featured Speaker, Chairman Tim Brick of MWD (rt)

The featured project, MWD's Inland Feeder Program won the (E3) **Environmental Sustainability Honor Award**. The Inland Feeder is a 44-mile long, 12-foot diameter water conveyance system that was planned, designed and constructed with environmental stewardship as one of its guiding principles. The \$1.2 billion facility, completed in September 2009, ensures water supply reliability for nearly 19 million residents by mitigating the impact of ongoing climate change on the water supply and potential service interruptions caused by earthquakes on nearby faults. With the Inland Feeder operation, Metropolitan can now fully utilize the largest water supply/conveyance system constructed in Southern California since the 1960s.



Attendees network in the patio area of MWD's Los Angeles headquarters

Chairman Brick broadened the discussion by challenging water quality professionals to consider our global water situation: 1.1 billion people do not have access to safe drinking water (1/6th of the world's population) and 2.2 million people die every year from diseases associated with a lack of access to safe drinking water, inadequate sanitation and poor hygiene. Here in North America, we are experiencing water supply and quality challenges. Three percent of all the energy used in California is consumed to move water to Southern California. In addition to energy efficiency concerns there are supply constraints. For example pumping restrictions are in place in the bay-delta to protect the delta smelt and we are experiencing a drought cycle in the Colorado River Basin. We need to identify new local water resources to address these concerns. Chairman Brick suggested that local conservation efforts result in "new water". Irrigation is a substantial consumer in this arid region. Public education efforts that result in drought tolerant plant selections reduce the local irrigation demand. Another potential "new water"

could be local reclaimed resources. For example, MWD and its member agencies are partnering with Los Angeles County Sanitation Districts to seriously consider the use of highly treated (reverse osmosis) recycled product water as a viable local supply. Chairman Brick acknowledged that there are quality concerns, such as the potential for endocrine disrupting compounds, associated with the full-scale development of this resource. Therefore, the first step is jointly funded research to assess the appropriate level of treatment and corresponding uses for local recycled water resources.

Vice President Selna then introduced the second Speaker, Dr. Kent Sorenson, Jr., Vice President and Assistant Chief Technical Officer at CDM. Dr. Sorenson is an environmental engineer experienced in groundwater characterization and remediation. His work focuses on in situ remediation of contaminants, including aspects of microbiology, hydrogeology, and geochemistry. Dr. Sorenson described CDM's patented groundwater technology that is being applied to reduce the migration of contamination plumes and remediate sources, which describe another of Chairman Brick's potential "new water" resources.

The featured project, CDM's Technology for InSitu Biodegradation of Perchlorate and Nitrate won the **Superior Achievement Award**. This program, located in Rancho Cordova, developed a patented process called Gaseous Electron Donor Injection Technology (GEDIT) that successfully remediates contaminants in deep soil. CDM collaborated with the U.S. Department of Defense and Aerojet-General Corporation to develop this technology.



Attendees enjoy dinner and camaraderie at MWD's Los Angeles headquarters

Perchlorate is widely used as an oxidizer in rocket fuel, munitions, fireworks, and road flares. Due to past ground disposal during manufacturing and testing, perchlorate still leaches into groundwater from soil. As an endocrine-disrupting compound, perchlorate can interfere with thyroid function, leading to serious health issues. Until now, remediation technologies for perchlorate and nitrate have not effectively addressed source contamination in soil that leaches into groundwater. CDM collaborated with the U.S. Department of Defense Environmental Security Technology Certification Program and Aerojet-General Corporation to research, develop, and prove an innovative in situ bioremediation process. In field tests, the patented technology successfully remediated perchlorate and nitrate in soil beyond the 90-percent reduction goal.

An essential component of Certification is the Academy's continuing education requirements. The 2010 West Coast Event provided the membership with an enlightened and inspired training opportunity. Through the practice of "Excellence in Environmental Engineering" the profession, continues its journey toward making universal access to safe water a reality.



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The 2011 LABS Awards Banquet – the Best of the Best in Operations, Maintenance, Safety, Research, Engineering, Collection Systems, P3S, Public Outreach and more!



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710 fwy south, exit 1A to Piers F-J/Queen Mary. Hotel/restaurant parking. Elevators to 4th floor, shore side, aft.

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*Meal
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1. Grilled Chicken
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- Cash bar
Dessert and coffee

RSVP

With meal choice by 12/30:
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\$60 ea. Non-members
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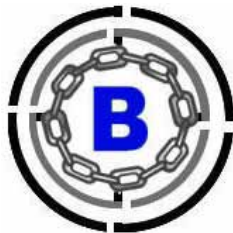
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SPECIAL EVENTS CALENDAR

Dec 8 th	Easements for Wastewater Facilities; Irvine; http://www.cwea.org/sarbs/
Dec 8 th	Introduction to Corporate Social Responsibility, Sustainability and Green Buildings; UC Irvine; http://unex.uci.edu/services/event/s/
Jan 8 th	LABS Awards Banquet, Long Beach, http://www.labsocwea.com/
Jan 18 th	One Day Specialty Workshop; Biosolids; Whittier, http://www.labsocwea.com/
Jan 20 th	Collections Training Seminar; Huntington Beach; http://www.labsocwea.com/

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