



ASSOCIATION OF ENGINEERING GEOLOGISTS

MEETING
ANNOUNCEMENT &
SPEAKER ABSTRACT



SACRAMENTO

Section Meeting Date:	March 28, 2005, 6:00 - 9:00 PM (Tuesday)	
Meeting Location:	Da' BIG KAHUNA'S in Sacramento, 1128 8th Street, (Near the corner of 8th and L, near the Downtown Plaza, see attached map on page four)	
Meeting Time:	6:00 - 6:45	Sign-In & Social Hour
	6:45 - 7:45	Dinner & Announcements
	7:45 - 8:30	Talk & Slide Show
	8:30 - 8:45	Questions & Answers



SEISMIC RETROFIT OF THE POSEY AND WEBSTER STREET TUBES IN OAKLAND, CALIFORNIA: CONSTRUCTION OF SOILCRETE COLUMNS USING A TRIPLE FLUID JET GROUT SYSTEM

SPEAKER: Marcia Kiese, PG
California Department of Transportation
Sacramento, California

Abstract

The Northern California cities of Oakland and Alameda are linked by two historically significant traffic corridors that traverse beneath the Oakland Estuary: the Posey Tube and the Webster Street Tube. Designed by Alameda County Engineer George A. Posey and completed in 1928, the 3,200 foot long Posey Tube was the first precast underwater tube structure of its kind in the world. By 1962, the tube carried approximately 30,000 vehicles per day. In 1965 the Webster Street Tube was constructed parallel to and 500 feet west of the Posey Tube to increase vehicle capacity. Each tube consists of twelve 200 ft long precast tube segments and an 800 ft long cast-in-place tube section, with approaches and portal buildings at the ends of each tube.

In 2002 the California Department of Transportation issued a contract for an innovative seismic retrofit of the tubes to be achieved by construction of stone columns and jet grout columns along each side of the



tubes. The primary objective of the project was to minimize the potential for liquefaction during a major earthquake by densifying the backfilled soils surrounding the tubes. Overlapping, 6-foot diameter soilcrete columns were constructed using a triple fluid jet grout system to create an isolation wall. More than half of the columns were installed over water up to forty feet deep. Possibly the first time this type of jet grout construction has been attempted anywhere in the world, the Webster-Posey seismic retrofit project presented many unique and interesting challenges.

Marcia Kiese, PG

California Department of Transportation
Sacramento, California

Marcia_Kiese@dot.ca.gov

Marcia's engineering geology career began in Los Angeles in 1979, when she was hired by Caltrans District 7 Engineering Services as a student assistant to investigate and monitor landslide activity on the Pacific Coast Highway in Malibu. She completed a BS degree in Geology from California State University in Los Angeles while continuing to work on major transportation-related projects in Southern California and Marin County. In 1987 she transferred to the State Water Resource Control Board, Division of Water Quality in Sacramento to work on the regulation of hazardous waste sites statewide. In 1990 she was asked to manage the Board's newly-established abandoned mine program, which focused on nonpoint source pollution caused by acid rock drainage from abandoned hard rock mines. She visited Russia and Estonia as a member of the 1992 American Society of Surface Mining and Reclamation ecological restoration team. From 1994 through 2000 she provided CEQA training, and worked on solid waste management and the development of environmental regulations with the California Integrated Waste Management Board. Returning to the California Department of Transportation in 2000, she worked first in the Division of Environmental Analysis, then in the Division of Engineering Services at Translab. From January 2003 through December 2004 she was assigned to work on the Webster-Posey Phase II Seismic Retrofit Project in Oakland for the Department's Office of Structure Construction.

Marcia Kiese currently works in the Geophysics and Geology Branch at Translab, the headquarters laboratory for the California Department of Transportation in Sacramento.

Job Opening

Scientist 1

Shaw Environmental and Infrastructure, Inc., a subsidiary of The Shaw Group, Inc., (www.shawgrp.com) is a leading, full-service environmental consulting and engineering firm that recognizes that it takes a group of highly talented and motivated individuals working together to achieve the kind of outstanding results we continue to experience.

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The position requires a BS/MS in Geology or Engineering and 0 to 3 years of relevant experience. The ideal candidate will be a self starter who can work closely with project managers and senior staff. The candidate must have strong Communication skills and proficient with MS Office.

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A Message from Your Board

As many of you know, there are several people within AEG and in our own Section that give a great deal of themselves to improve our Association and our practice as a whole. I would like to take this message to recognize a few of those individuals who have consumed a great deal of their own personal time to help us through the recent fiasco with the proposed California Performance Review (CPR). The CPR Committee was led by our three Section Chairs here in California, including Matt Hawley (So CA Section), Corinne Stewart (SF Section), and myself on our behalf. Legislative Chairs Marcia Kiese, Joe Cota, and Bob Tepel were all very instrumental in maintaining communication and offering their wisdom through the process. Several of our Section members also played a big role in reviewing letters and assuring a balance of the position statement including Eric Chase and David Bieber. These are all people who participated in conference calls, reviewed draft letters, attended public meetings, and spent a great deal of time discussing pros and cons for the CPR issue. ALL of this time was after their day jobs were done! Next time you come across any of these friends of ours, please let them know that you appreciate their efforts and, by all means, offer to get involved next time an issue of this vital nature comes up. If you haven't done so before, it is a most rewarding experience to contribute to our very own professional community and a great opportunity to learn more about our legislative issues and processes.

Sincerely,
Bruce Hilton
Sacramento Section Chair

**FACSIMILE TRANSMITTAL
(OR E-MAIL BY CLICKING LINK BELOW)**

To: Dianne Tibbs (Youngdahl Consulting Group)

e-mail: mail@youngdahl.net

Phone: 916.933.0633

Fax: 916.933.6482

From: _____

Or you can sign up online at:

www.aegsacto.org

Subject: March 2005 AEG Sac Section Meeting

Date: March 28, 2005 (Tuesday Evening)

Place: **Da' Big Kahuna's**
1128 8th Street, Sacramento (Downtown, see map below)

Time:	6:00 - 6:45 PM	Sign-In & Social Hour
	6:45 - 7:45 PM	Dinner & Announcements
	7:45 - 8:30 PM	Talk & Slide Show
	8:30 - 8:45 PM	Questions & Answers

Dinner Options:

Dinner will be buffet style and includes soda, salad, bread, a pizza buffet and dessert!

Cost is \$18 for members and \$20 for non-members*.

Parking is available next door for a cost of \$2.00. Given this location's proximity to nearby light-rail stations (and the rapidly rising cost of fuel), this might be an excellent opportunity to give Sacramento's very convenient public transportation system a try!

Notes*: First 5 RSVP Students Eat For Free; Student RSVPs: \$5 Student Walk-Ins: \$10



March 2005 Meeting

Location

Da' Big Kahuna's

**1128 8th Street
Sacramento, California**

AEG-SAC Section
<<http://www.aegsacto.org>>
Contact List

2005/Officers & Committee Chairs

Section Chairperson:

Bruce Hilton
Kleinfelder Inc.
3077 Fite Circle
Sacramento, California 95827
(916) 366-1701
bhilton@kleinfelder.com

Vice-Chairperson:

Darcie Forma
Wallace-Kuhl & Associates, Inc.
3050 Industrial Blvd.
West Sacramento, CA 95691
(916) 372-1434
dforma@wallace-kuhl.com

Secretary:

T. Nathan Manley
Geocon, Inc.
3160 Gold Valley Drive, Suite 800
Rancho Cordova, CA 95742
(916) 362-5879
tnmanley@sbcglobal.net

Treasurer:

Victoria Walker
Youngdahl Consulting Group, Inc.
1234 Glenhaven Court
El Dorado Hills, California 95762
(916) 933-0633
vdw@youngdahl.net

Membership Chair:

Pat Fischer
Blackburn Consulting Inc.
3265 Fortune Court
Auburn, CA 95602
(530) 887-1494
patf@blackburnconsulting.com

Legislation and Regulatory Affairs:

Marcia Kiese, Chair
California Department of Transportation
5900 Folsom Blvd.
Sacramento, CA 95819
(916)227-6942
marcia_kiese@dot.ca.gov

National Newsletter Correspondent:

Stephen Testa
Testa Environmental Corp.
(209)754-1422
stesta@goldrush.com

Scholarship Chair:

Keith Millard
Youngdahl Consulting Group, Inc.
1234 Glenhaven Court
El Dorado Hills, California 95762
(916) 933-0633
mail@youngdahl.net

Webmaster (**Vacant**)

for more information, contact Nate Manley

North Valley Chapter:

Jim Bianchin, Chapter Chair
Curry Group, Inc.
6724 Lockheed Drive, Suite 4
Redding, CA 96002
(530)223-1277
jbianchin@currygroup.com

Sponsorship Chair:

Eric Chase
ENSR Northern California
(916) 362-7100
echase@ensr.com