Workshop Location

Orange County Water District

18700 Ward Street
Fountain Valley, CA 92708

www.ocwd.com

Friday May 10, 2013

8:00 – 9:00 Reg. & Social
9:00 – 12:30 Presentations
1:00 – 2:30 Presentations
2:45 – 4: 30 Discussions

This Workshop focuses on the latest geotechnical and structural engineering concepts to mitigate surface fault rupture. The interdisciplinary forum allows the participants to go beyond the current regulatory restriction of total fault avoidance regardless of site-specific procedures now available to mitigate risk to life and property.

Registration Information

Name

Affiliation

Address

City, State, Zip

Email

- Mail check for $85, payable to AEG, to: Eldon Gath, c/o Earth Consultants Int., 1642 E. 4th St., Santa Ana, CA 92701
- Space-available registrations at the door will be $100. These cannot be assured and lunch may not be provided.
- The event is limited to 100 people.
- A sandwich lunch and drinks will be provided.

Contact Eldon Gath for further information: 714-412-2653 or gath@earthconsultants.com

Surface Fault Rupture

New Mitigation Concepts and Political Challenges

AEG • ASCE • EERI

A Knowledge and Technology Transfer Workshop

May 10, 2013

Fault rupture is only ground deformation along discrete or dispersed surfaces – does the structure care why the ground moved?

Surface fault rupture is defined as a hazard in California under the 1972 Alquist-Priolo Act that was passed in response to the 1971 San Fernando earthquake to regulate future development within active fault zones. Although the Act has been amended 11 times, and had its name changed from "Special Studies Zones Act" to "Earthquake Fault Zoning Act" in 1994, the technical intent of the Act has never been challenged: i.e. *"prohibit the location of developments and structures for human occupancy across the trace of active faults"* (CA 2621.5). As such, the A-P Act's only permitted mitigation is the total avoidance of the hazard.

In the past 40 years since the passage of the A-P Act, the geologic understanding of fault rupture has greatly improved by use of paleoseismic trenching, by earthquake field investigations, and by new generations of geologists completing thousands of fault studies. Today it is possible to quantitatively and temporally determine fault hazards at a resolution that was totally unknown in 1971.

Geotechnical and structural engineering practice has also matured significantly since 1971, and today provide a technical basis for mitigation of surface fault displacements unavailable when the A-P Act was written. Indeed, the CA Seismic Hazards Mapping Act requires the mitigation of slope and liquefaction-induced displacements that often exceed fault rupture displacements!

This conference will bring together developers, planners, engineers, geologists, and regulators to examine the fault rupture mitigation issue from all angles, and perhaps develop consensus for a 12th amendment to the Act.

Please participate, contribute, and benefit.

Speakers
(partial list)

Moderators: Dr. Roy Shlemon and Eldon Gath

Keynote Speaker: Dr. Jonathan Bray – UC Berkeley, 2012 SSA/EERI Joyner Lecturer

Craig Comartin – CDComartin, Inc.

Alan Kropp – Alan Kropp & Assoc.

Dr. Roy Shlemon – Roy J. Shlemon & Assoc.

Dr. Thomas Rockwell – SDSU & Earth Consultants International

Charles Nestle – County of Los Angeles, Dept. of Public Works

Other invitees.

Panel Discussion and Attendee participation encouraged

Who Should Attend: Geologists, Engineers, Architects, City Planners, Attorneys, Agency Regulators and others concerned with California seismic hazards and with improving the public's health, safety and welfare.