“Martis Creek Dam – The Discovery of a New Capable Fault in Tahoe Basin”

Bruce Hilton,
Kleinfelder, Sacramento, CA &
President, Association of Environmental & Engineering Geologists

Wednesday, November 10, 2010
NOTE: This is one week prior to our regular meeting date.
5:00 – Social
   Earth Sciences Dept. Courtyard
6:00 – Dinner
   Earth Sciences Dept. Courtyard
7:00 - Speaker
   Earth Sciences Dept. Classroom

Location
University of California-Riverside, Department of Geological Sciences
(Meeting Cost $25; Students $5); see meeting details on page 3
Co-sponsored by the Geology Club & the Earth Sciences Department

Abstract
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Martis Creek Dam is located in the north Tahoe Basin near Truckee, California. In 2006, this dam was identified by preliminary risk analyses to be one of the Corps of Engineers’ top ten high risk dams in the entire United States based on seepage and seismic deficiencies. During the ensuing seepage and seismic studies, LiDAR data was obtained largely as a base for topographic analysis of
Abstract (continued)

hydrologic breach and inundation mapping studies. A review of these very high resolution, bare earth LiDAR by the Corps’ suggested the presence of a strong, continuous lineation through the spillway near the dam and extending for miles in either direction. This talk focuses on the use of these LiDAR data and the geomorphic analysis and paleoseismic trenching to further evaluate this newly named Polaris Fault Zone.

Speaker Biography

Mr. Hilton began his career at Leighton & Associates in Southern CA in 1978 and continued his career in northern California with Kleinfelder since 1993. His focus has been with engineering geology of private and public projects throughout the US during his 32 years in the business. He is Kleinfelder’s Chief Engineering Geologist and, in this role, he is responsible for the quality, external exposure, marketing, and mentorship throughout the firm. His experience spans both environmental and engineering geology with emphasis on geomorphology, fault studies, landslides and slope stability, GIS, dams and transportation, and soil and groundwater contamination assessments. He resides in Sacramento California with his wife and enjoys, volleyball, golf, and body surfing. Mr. Hilton can be reached by phone at (916) 366-2306 or by email at BHilton@Kleinfelder.com.
OTHER MEETINGS

AEG-Southern California Section:  
Oct 9, 2010 (Tuesday).  “CA High Speed Train – How to Cross Active Faults at 250 mph.”  Speaker: Bruce Hilton, Kleinfelder and President of AEG.  For more information visit http://www.aegsc.org/

ASCE (Los Angeles Section): Nov 17, 2010  
(Wednesday).  “Earthquake and Tsunami Damage of Mw 8.8 Chile Earthquake of February 27, 2010.”  Speaker: Dr. Arul Arulmali, Earth Mechanics.  Location: Stevens Steak House, Commerce, CA.  For more information visit www.ascelasction.org


LA BASIN GEOLOGICAL SOCIETY:  
Regularly scheduled meeting on 4th Thursday of Nov is on Thanksgiving, so no meeting.  For more info about the Society visit www.labgs.org

SCGS: Speaker: TBA.  Location: Double Tree, Santa Ana.  For more info about SCGS visit: http://www.southcoastgeo.org/

SDAG: Nov 17, 2010 (Wednesday).  “Dead Oil in the San Diego Subsurface.”  Speaker: Dr. Norrie Robbins, SDSU.  Location: Marina Village.  For more info visit http://www.sandiegogeologists.org/


November  
AEG-Chapter Meeting Info

Earth Sciences Department –  
University of California- Riverside  
Geology Building, 900 University Avenue  
• Social/Dinner:  Earth Sciences Dept. Courtyard  
• Presentation:  Earth Science Dept. Classroom (TBA)  
(SEE MAP NEXT PAGE)

Parking (see map next page):  
• Park in Lot 13; Requires a $5 parking sticker available at the main University entrance kiosk.

NOTES:  
1) Do not park in Visitor Lot 10, the closest lot to the Geology Building, or in any spaces in Lot 13 marked “Reserved.”
2) Visitor Parking lot spaces are only good for only two hours at a time (NO CASH, Card only).
3) Beware, the staff of the Parking Police is extensive, and Lots are visited frequently to cite violators!

Directions (see map next page):  
From the I-215 and US 60 in Riverside, EXIT at University Avenue and proceed eastward to the UC-Riverside Campus to park as shown on the attached map (page 4).  Once east of I-215/60 turn right on Canyon Crest Drive to Parking Kiosk for the $5 parking fee.  Proceed to Lot 13 Walk to the Geology Building; the Courtyard is on the west side of the Building.

Dinner Menu (cookout):  
-Hamburgers  -Bratwurst  
-Potato Salad  -Chips & Dip  
-Dessert  -Drinks and water  

Cost:  Professionals $25; Students $5

RSVP:  RSVP by COB Monday November 8, 2010 by emailing: aeginland@gmail.com

AEG  
*** Free Student Memberships ***  
Students invest in YOUR CAREER!
AEG Parking Instructions
1. Purchase $5 Evening Permit from Manned Kiosk on W. Campus Dr. (Note: Permits from automated permit dispensers are only good for 2-hours.)
2. Park in P-13 (Parking Lot 13) off of Big Springs Rd. Park in any unmarked space. DO NOT park in housing spaces located at east end of lot or in any of the RED RESERVED spaces.
3. Walk to the Geology Building Courtyard.