

**ASSOCIATION OF ENVIRONMENTAL & ENGINEERING GEOLOGISTS**  
***Southern California Section***

*"Connecting Professionals, Practice, and the Public."*

***NEWSLETTER – April 2006***

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**Meeting Date:** **Tuesday, April 11<sup>th</sup>**

**Location:** Steven's Steak House, 5332 Stevens Place, Commerce, California

**Time:** 6:00 p.m.-Social Hour; 7:00 p.m.-Dinner; 7:45 p.m.-Presentation

**Cost:** \$30 per person with reservations, \$35 at the door, \$15 for students with a valid Student ID

**Reservations:** Please call (323) 889-5366 or email [rmunro@mactec.com](mailto:rmunro@mactec.com)

**Speaker:** Woodrow Higdon

**Topic:** **Bluebird Canyon Landslides: Past, Present, & Future**

**Abstract:**

On October 2, 1978, a large landslide devastated the Bluebird Canyon area of Laguna Beach and initially destroyed 21 homes. This slide became known as the "15 Million Dollar Slide" due to its high cost of repair by 1978 standards. Woody was one of the project geologist assigned to investigate the re-activated ancient landslide. On June 1, 2005, the area to the northeast and adjacent to the 78 Bluebird Canyon surface failure became active, and again brought national media attention to the area as 17 homes were destroyed or damaged, and leaving many others in jeopardy. Like the preceding slide, this slide was a reactivated ancient landslide that was identified along with other ancient landslide in the area during the 1978 investigation. During the period between 1978 and 2005 Laguna Beach has had a series of damaging landslides. These slides have commonalities that extend beyond being landslides, and the area of Laguna Beach, that can help geologist detect and delineate future potential landslides through the acquisition and use of appropriate aerial photography.

As a Geotechnical Photographer, Woody started a program of investigation and documentation imagery in the late 1970's on a variety of areas in Southern California, including the Laguna Beach area that continues to this day.

Mr. Higdon's talk will focus on Bluebird Canyon Landslides 1 and 2, with a pictorial review of Laguna Beach's damaging landslides, from 1978 to the present, with a look toward future landslides.

### Speaker Bio

Woodrow Higdon received his A.S degree in Marine Geology from Cypress College in 1971, his B.S. in Geology from CSU Long Beach in 1975 and did post graduate work in Remote Sensing through Harvard University in 1981. Mr. Higdon is the president and founder of Geo-Tech Imagery International, a geotechnical photography company specializing in land use imagery. Prior to forming Geo-Tech Imagery International in 1979, Woody served in the US Marine Corps, was employed as a police officer in the Southern California area, and was a staff geologist for Leighton and Associates. His technical photographic and video capabilities are supported with his helicopter pilot ratings, Naval Diving School Certifications, GIS consulting, and an airphoto library of over 250,000 frames.

You can contact Woodrow at (760) 754-8423 or email him at [woody@geo-tech-imagery.com](mailto:woody@geo-tech-imagery.com)

### Chair Column

Charles Nestle

Greetings southern California Section members,

I'll be out of the Country during the April meeting, so Brian Villalobos will be running the show. I have much to report on the goings-on with our Board, so the following write-up will have to suffice. Perhaps someone who attended the March 24 BGG meeting will be in attendance at the Section meeting and can fill you in on other details. Thank you for coming to the Section meetings; it's inspiring to see the increased attendance at the last few meetings.

### **March 24 BGG Meeting**

The Board for Geologists and Geophysicists held a meeting on March 24 specifically to address the performance of the Executive Officer, Paul Sweeney. The meeting was attended myself, Bruce Hilton, Marcia Kiese, Dave Bieber (immediate past AEG President), Bob Anderson, Rick Rempel, TAC members Tony Sawyer and Roy Shlemon, former board staff members (Mary Scruggs and others), two representatives from the Board for Professional Engineers and Land Surveyors, Board counsels Gary Duke and Mr. Chang, Dr. Matthews (bravely mustering enough energy to attend), and a host of others who I didn't recognize and who didn't sign in. Most of those listed above spoke on a variety of issues where fault had been found with the performance of the Executive Officer.

All spoke on their personal observations, some in excruciating detail, that without corroborating evidence may verge on slander or libel. It seemed that among the current, and former staff members who spoke on the record (and indeed, Rick Rempel video taped the proceedings), that they all had such similar experiences that corroborating evidence should not be required (sufficient circumstantial evidence is often all that law enforcement requires to prosecute). The board members thought differently, however, and by majority vote chose to keep him on (majority, in this case, being two to one with one abstention).

The Executive Officer serves at the pleasure of the Board and can be let go without cause. The amount of mistrust, antagonism, obvious dysfunction, and abundant testimony from such a divergent group of individuals airing a variety of complaints directly applicable to the Executive Officer should have been sufficient cause for dismissal. So why was he not dismissed, and why is the Board so apparently dysfunctional?

#### **Problem 1:**

The Executive Officer of the Board for Geologists and Geophysicists is *not a geologist*. By way of comparison, The Executive Officer of the Board for Professional Engineers and Land Surveyors is a licensed Professional Engineer. Is this important? A non-geologist in the Executive Officer's position may be more prone to politicizing the decision-making process than a technical professional would be in the same position. On the other hand, some argue that managerial and political skills are more important than technical knowledge for the task of running a board.

While there is no statutory requirement for any Executive Officer to be licensed by the board for which he or she serves, the increase in perceived credibility a licensed EO would bring to that board might make it a worthwhile objective. Since the board appoints the Executive Officer, this should be easily achievable.

#### **Problem 2:**

Of the seven positions on the Board for Geologists and Geophysicists (BGG), three are vacant. Since Dr. Matthews (CEG) retired last month, only one current board member is a geologist – Bill Black (GP), three are public members, and two of those public members are engineers. How can a board of this composition possibly be expected to fulfill its obligations to the public while regulating an industry that its members are not part of? How can these board members be expected to question and fully comprehend the issues that they face without the specific education and training required to thoroughly understand them? The public members rely upon the experience and expertise of the professional members to guide them through these complex technical issues; but the lack of technical expertise on the board has left it ill equipped to provide the level of service the public and the industry demands.

#### **The Solution:**

All vacant geologist positions on the Board for Geologists and Geophysicists must be filled. The board has two vacant CEG positions and will soon have one vacant geophysicist position when Mr. Black's term expires this coming July (although there is a provision in the code for a temporary extension should the position remain unfilled).

**What you can do:**

Geologists who are interested in, and have the desire and drive to actually control the operation of the Board, must fill these positions. If you meet the qualifications for the position as specified in Business and Professions Code § 7811 (see page 4 of the Geologist and Geophysicist Act), you can apply for a board appointment by filling out, printing, signing, and mailing an on-line application form at the Governor's web page. Go to: <http://www.governor.ca.gov/>, then click on "Appointments" (on the left side of the page), then "Serving in the Schwarzenegger Administration." Follow the instructions from this point on.

Because this is a political appointment, filling out an application may not be enough. Make an appointment to visit your State representative(s) either at their local office, or in Sacramento, and let them know you've applied for the board appointment and would like their support. If you've never met your representatives, you will find they are surprisingly easy to talk to. Ask them to send a letter of recommendation to: Alice M. Dowdin, Deputy Appointments Secretary, Office of Governor Arnold Schwarzenegger, State Capitol, Sacramento, CA 95814. Even if you don't go to this level of effort, submitting an application provides a larger pool of applicants from which to choose. This is the critical first step to populating the board with qualified technical professionals who can educate the public members and work toward appointing a licensed professional as its Executive Officer.

**Lastly:**

As stated in Business and Professions Code § 7810.1: "Protection of the public shall be the highest priority for the Board for Geologist and Geophysicists.... Whenever the protection of the public is inconsistent with other interests sought to be promoted, the protection of the public shall be paramount." Until the positions are filled, let's hope the Board and its Executive Officer strive to depoliticize their decisions. Reciting this Code Section prior to rendering decisions might help.

**California Specific Exam**

Part of the Board's decision to retain the services of Mr. Sweeney included throwing us a bone: the decision to eliminate the CSE has been rescinded. Whether or not this is cause to rejoice is debatable. Rumor has it that Mr. Sweeney may have argued that the whole bid to remove him began with complaints from AEG about his push to eliminate the CSE, and that everyone else simply fell in line. Given the number of different directions the attack came from, that argument clearly has no merit.

The tentative plan proposed by the Board is to include all stake holders in the discussion by arranging meetings via teleconference where anyone who wants to can participate. I find teleconferencing to be awkward and cumbersome, and high numbers of participants will render it even more so. But it's certainly a lot cheaper than flying everyone to Sacramento. As further details are developed you will be notified via e-mail blast to ensure so that you are informed as quickly as possible.

**Email Addresses**

About 35 of you are not receiving email messages that I send through the AEG National web site. If you have not received email messages from me, then your email address on record is not correct. You can change your email address by logging onto the AEG web site.

**AEG Field Trip Guidebooks**

Sandy Figuers has been assembling a collection of AEG field trip guidebooks for quite some time, and provides copies to local libraries and schools. There are many that he has not yet located, and so he sent the following list for AEG members to check their collections for those he has marked as missing. He asked that the entire list be presented, so I've italicized and underlined those marked as missing. I may have missed some, so check the list carefully. If you have any that he needs he is willing to copy them and send the originals back to you. Please contact him via the email address shown.

## AEG FIELD TRIP GUIDEBOOKS

This is a listing of the AEG California guidebooks that I am aware of as of 2/ 2006. The \*\*\* indicates missing information. The "(no copy known)" indicates that a field trip was run but either no guidebook was issued or I have not been able to find a copy of the guidebook. *[These are shown italicized and underlined]*

I am searching for guidebooks not listed here, the information that is missing from these entries, and guidebooks/fieldtrips that I am aware of but have been unable to locate a copy of.

Any info you find – please send to Sandy Figuers at: [snapfig@aol.com](mailto:snapfig@aol.com)

Klein, I.E. (editor); 1959; East side San Joaquin Valley field trip; CAEG Sacramento section; June 5-6, 1959; 25 pp and handout; general road log; (USGS); [Stanislaus, Tulare]. Note: This may be the first AEG guidebook. The field trip visited and looked at the engineering geology of the Tulloch and Success Dams adjacent to Rt 120. The field stops were:

- 1 – Tulloch Dam (south of Knights Ferry) [Stanislaus]
- 2 – Success Dam (east of Porterville) [Tulare]

Brown, G.S., Roberts, D. (chairman); 1959; Program . . . Meeting; CAEG, 2<sup>nd</sup> annual meeting; October 11, 1959; 3 pp.; general road log; (Stanford); [LA]; Note: the field trip guides begin on page 23 of the program for the 2<sup>nd</sup> annual meeting. The title listed above is the title that the program guide is listed in the Stanford library catalog. The road logs are:

- 1 – Pacific Palisades – Malibu Landslides
- 2 – Ridge Basin, San Andreas Rift zone

Unknown; 1960; Trinity River project; CAEG Sacramento section; June 4, 1960; ~6 pp; general road log; (CDMG); [Trinity]; Note: this field trip was held in conjunction with the June, 1960 Geological society of Sacramento field trip and the road log is trip number 2a in the GSS field guide.

Adair, M.J. and Schnnaible, D. (editors); 1961; 1961 spring field trip; CAEG Sacramento section; June 17-18, 1961; ~ 40 pp and maps; detailed road log; (USGS); [Glenn, Plumas]; The road logs were:

- 1 – Orland to Black Butte Project
- 2 – Black Butte project to Newville dam site
- 3 – Junction of Newville and Elk Creek roads to Stoney Gorge Dam
- 4 – Junction Elk Creek and Willows road to Willows
- 5 – Oroville Irrigation District

**The 1962 Sacramento section AEG field trip was held in conjunction with the Geological Society of Sacramento spring field trip (June 9-10, 1962). See the GSS listing for information.**

*Keene, A; 1962; Ground water geology of Coastal Margins of the Los Angeles Basin; AEG, southern section, field trip 1; October 14, 1962; \*, \*, \*; no copy known; Note: abstract of field trip is in section meeting program, CDMG.*

*Stone, R. and Slosson, J.; 1962; Modelo (Monterey) Formation – Construction hazards and solutions; AEG southern section, field trip 2; October 14, 1962; \*, \*, \*; no copy known; Note: abstract of field trip is in section meeting program – CDMG.*

Slosson, J.: 1963; Field guidebook to Santa Catalina Island; AEG southern section; 1963; (no copy known); [Channel Island]

Johnson, L., McDonald, R.B., Klein, I.E; 1964; San Luis unit and Pacheco Pass tour; AEG national meeting; November 1, 1966; 20 pp; general road log; (private); [Merced, Santa Clara]; the stops were:

- 1 – San Luis Canal, reach I
- 2 – San Luis Forebay pumping plant
- 3 - San Luis Forebay Dam
- 4 - San Luis Dam
- 5 – Basalt Hill rock quarry
- 5a – Right abutment - San Luis Dam
- 5b – Trashrack, upstream tunnel portals, Trashrack bridge
- 6 - San Luis pumping-generating plant
- 7 – The “Wheel”
- 8 – Highway 152 realignment
- 9 – Pacheco Tunnel Inlet Area

Radburn, D.H.; 1964; Log for field trip through Caldecott Tunnel, Berkeley Hills, California; USGS OFR 64-129; March 30, 1963; 2 pp and map; general road log; (USGS); [Contra Costa]; Note: This was part of the 1964 AEG meeting.

Unknown; 1966; California Aqueduct Project; AEG Los Angeles section; June 4 and 5, 1966; 10 pp and map; general road log; (private); [LA, Kern]; Stops were:

- 1 – Castaic Dam
- 2 – Pyramid Reservoir
- 3 - Landslides in Peace Valley along Hwy 99
- 4 – Beartrap Canyon, north portal of C.V. Porter Tunnel
- 5 – Arvin- Edison Project features
- 6 – pre-subsidence and construction near Wheeler Ridge
- 7 – Tehachapi Pumping Plant

Slosson, J. H. and Hunt, G.S.; 1967; Catalina Island Guidebook; AEG southern California section; June 10, 1967; 29 pp; general road log; (private); [Channel Island]

Kresse, F. (editor); 1968; Guidebook for summer field trip East Branch, California Aqueduct; CAEG Los Angeles section; 10 pp and 9 maps; general road log; (private); [LA]; the stops were

- 1 – Anaverde embankments
- 2 – Pearblossom pumping plant
- 3 – Forks Dam
- 4 – Cedar Springs Dam
- 5, 6 – San Bernardino tunnel
- 7 – Devil Canyon Power plant

Voloshin, C. and Fife, D. (chairmen); 1969; Field trip guide book, Castaic dam Angeles tunnel east branch California Aqueduct Fairmont to Pearblossom; AEG LA section; June 28, 1969; 10 pp and 3 plates; no road log; (private); [LA]

**The 1969 AEG annual meeting was held in San Francisco.**

Unknown; 1969; 1969 field trips; AEG national meeting; October 21-25, 1965; ~120 pp; detailed road logs; (UCB); [Alameda, San Mateo, Contra Costa]; field trips are:

- 1 – California State Water Project

- 2 – Hayward and Calaveras fault zones
- 3 – San Francisco Peninsula – Stanford Linear Accelerator
- 4 – Bay Area Rapid Transit System
- 5 – San Francisco Peninsular trip for Planners and Public officials
- 6 – The San Francisco Bay and Delta Model

Nichols, D.R.; 1970; Coastal development problems, Santa Cruz – Half Moon Bay; AEG San Francisco and Sacramento sections joint field trip; September 26, 1970, 5 pp; detailed road log; (USGS); [Santa Cruz, San Mateo]

Fife, D. (editor); 1970; Spring field trip guide to geology and engineering geology along the San Gabriel fault zone; AEG Los Angeles Section; April 11, 1970; 20 pp; general road log; (private); [LA]; Stops were:

- 1 – The San Gabriel fault in the Mint Canyon Quadrangle
- 2 – Interstate highway 5 and neighboring slides
- 3 – Pyramid Dam site
- 4 – Hardluck campground
- 5 – Frazier Mountain thrust in Dry Canyon
- 6 – Quail Canal crossing of the San Andreas Fault at Quail Lake

## 1971?

Frei; 1972; Auburn Dam site; AEG San Francisco and Sacramento sections joint field trip; May, 1972; \*\*\* no copy known

## The 1973 AEG annual meeting was held in North Hollywood, CA

Nicks, R.R.; 1973; Field trip guidebook; AEG annual meeting; October, 1973; ~80 pp detailed road logs; (Stanford); [Los Angeles, Orange]; field trips are:

- 1 – Malibu coast- Santa Monica Mountains
- 2 – Point Fermin/Portuguese Bend landslide
- 3 – The Sierra Madre fault system
- 4 – La Brea Tar pits and L.A. county museum of Natural History
- 5 – Los Angeles/Long Beach Harbor areas
- 6 – San Fernando earthquake zone
- 7 – South coastal zone, Los Angeles to southern Orange county, San Onofre Nuclear Power plant
- 8 – Castaic Dam and Pyramid Dam

Thompson, R.C.; 1972; Warm Springs Dam and Lake Sonoma Project; AEG San Francisco and Sacramento sections joint field trip; May 5, 1972; \*\*\* no copy known

Ross, A. and Dowlen, R.J.; 1973; Studies on the Geology and geologic hazards of the greater San Diego Area, California; AEG southern section and San Diego Assoc of Geologists; May, 1973; 152 pp and map; general road log; (Stanford); [San Diego]; Note: the guidebook was issued by the San Diego Assoc of Geologists.

Clark, B. and Burnett, J.; 1974; Geology and history of the Gold Country; AEG San Francisco and Sacramento sections joint field trip; May 18, 1974; \*\*\* no copy known; [El Dorado, Amador]

Unknown; 1974; Field trip to an off shore oil platform; AEG southern California section; June 1, 1974; \*\*\* no copy known; [Santa Barbara]

Ridley, A.; 1975; Excursion to Concord and Hayward faults and U.C. Rock Mechanics Lab; AEG Sacramento and San Francisco sections; May 10, 1975; 8 pp; general road log; (private); [Contra Costa, Alameda]; Field trips were:

- 1 – Evidence of creep along the Concord Fault
- 2 – Tour of the Rock Mechanics Lab
- 3 – A walking tour of the Hayward Fault in downtown Hayward

### **The 1975 annual AEG meeting was held at Lake Tahoe, CA**

Stearns, C.E. (editor); 1975; Geologic guide to Lake Tahoe, Mother Lode, Comstock Lode and Auburn Dam, California; AEG annual meeting in Lake Tahoe, guide book published by CA soil conservation service; November 5, 1975; 105 pp; general road log; (UCB); [El Dorado, Amador, Nevada, State of Nevada]; Note: The cover title is "*Field trip guide 18th annual meeting, 1975, Lake Tahoe*". Additional notes to this field trip were handed out. Copies of them are at CDMG - title: *Materials for 1975 AEG meeting Lake Tahoe*. The field trips were:

- 1 – The Comstock Load (in Nevada)
- 2 – The Mother Load
- 3 – Lake Tahoe
- 4 – Auburn Dam

Byer, J.H. (chairman); 1975; Sycamore Canyon Fault, Verdugo Fault, York Boulevard Fault, Raymond Fault, and Sierra Madre Fault zone; AEG, southern Calif. section; September 27, 1975; 68 pp; general road log; (UCB); [LA]

Stout, M.L.; 1976; Geologic guide to the San Bernardino Mountains, southern California; AEG southern California section; May 22, 1976; 115 pp; general road log; (UCD); [San Bernardino]; Note: parts of the road log were reprinted from a 1975 guidebook to this area.

Unknown; 1976; The Geysers geothermal field, Sonoma County California; AEG San Francisco and Sacramento sections field trip; May 22, 1976; 42 pp; detailed road log; (CDMG); [Sonoma, Lake]

Hunt, G. (editor); 1977; Field trip guide book to Santa Catalina Island; AEG southern California section; May 14 -16, 1977; 31 pp and maps; general road log; (CDMG); [Channel Island]

Cotton, W.; 1977; Field trip to the Congress Springs Landslide; AEG San Francisco and Sacramento sections joint field trip; May 14, 1977; no guidebook; (n/a); [Santa Cruz]; Note: This was a ½ day field trip that did not have any handouts or field trip guide.

Lamar, D.L. (editor); 1978; Geologic guide and engineering geology case histories, Los Angeles metropolitan area; AEG southern California section; May 12-14, 1978; 115 pp; detailed road log; (UCB); [LA]; The field trip was:

- 1-Geologic guide to northwest Los Angeles Basin and San Fernando Valley

The Southern California section may have re-run the Catalina Island field trip in May 1978

Keaton, J. R. (editor); 1979; Field guide to selected engineering geologic features Santa Monica Mountains; AEG southern Calif. section meeting; May 19, 1979; 121 pp; general road log; (CDMG and UCLA); \*\*\*



**The student chapter of AEG at UCLA ran several field trips in early 1979. No copies of the guidebooks are known.**

January 27, 1979; Field trip to Diamond Bar

February 10, 1979; Field trip to Baldwin Hills (leader was Ehlig, P.)

February 17-19, 1979; Field trip to Anza Barrigo State Park (leader was Stout, M.L.)

February 24-25, 1979; Field trip to Manix Lake

Vantine, J., Bedrossian, T., and Wassinger, C.; 1980; Field guide to the Geysers geothermal field; AEG California sections annual meeting, field trip; May 3-4, 1980; ~35 pp; detailed road log; (USGS); [Lake, Sonoma]; Note: This was the first and last group meeting of the California sections (after the AEG became a national organization in 1962).

Quick, G. and Slade, R.; 1981; Field trip guide book to the Ventura and Santa Barbara County areas, California; AEG southern California section field trip; September 19, 1981; ~60 pp; general road log; (CDMG); [Ventura, Santa Barbara]

Cotton, W. and Weber, G.; 1982; Field trip to the Love Creek and Newell Creek landslides; AEG San Francisco section; May 15, 1982; no guidebook; (n/a); [Santa Cruz]; no field trip guidebook was issued.

Holt, J. and Hollingsworth, R. (editors); 1983; Sierra Madre and related fault zones; AEG, southern section; May 21, 1983; 150 pp and plates; detailed road logs; (UCD); [LA, San Bernardino]

**1983 annual meeting was held in San Diego, CA**

Dowlen, R.J and Schug, D.L. (editors); 1983; Field guide to selected dams and reservoirs San Diego County, California; AEG annual meeting in San Diego; October 2-7, 1983; 157 pp and handouts; general road log; (USGS); [San Diego]

Farrand, G.T (editor); 1983; Guidebook to selected geologic features coastal area of southern San Diego County; AEG annual meeting; October 7, 1983; 87 pp; detailed road log; (CDMG); [San Diego]

Unknown; 1983; Baja California, Mexico; AEG annual meeting; October 1-4, 1983; \*\*\* no copy known; [Mexico]

Unknown; 1983; Local history and geology; AEG annual meeting; October 3, 1983; \*\*\* no copy known; [San Diego]; Note: this was a one-day city tour for non-geologists.

Unknown; 1983; Field guide to selected dams and reservoirs and water Conveyance structures; AEG annual meeting; October 7, 1983; \*\*\*; (Marathon Oil Company); [San Diego]

Hollingsworth, R.A. and Robertson, H.S.; 1984; Field guide to selected engineering geologic features Malibu, Los Angeles County, California; AEG southern Calif. Section field trip; June 2, 1984; 115 pp; detailed road log; (USGS); [LA]; Note: the field trip was to the Big Rock Slide and surrounding area. The front cover title is "Field trip guidebook engineering geological features Malibu, Los Angeles County, California"

Guacci, G., Alter, M. and Stolt, G.; 1985; Anacapa Island, Channel Islands National Park; AEG southern Calif. Section; June 8, 1985; 90 pp; general road log; (private); [Channel Island]; Note: This guidebook consisted of reprints of papers (geology and history) about the island.

Cotton, W. R.; 1985; The San Gabriel Fault in Rye Canyon; AEG southern Calif. Section; Fall, 1985; \*\*\* no copy known

**The 1986 annual meeting was held in San Francisco. The field guides were:**

Vantine, J. and Spittler, T.; 1986; The Geysers geothermal field and the McLaughlin mine; AEG annual meeting, field trip 1; October 4-10, 1986; 95 pp; general road log; (Stanford); [Marin, Napa, Sonoma, Contra Costa, Solano]

Hall, T. and Cotton, W. R.; 1986; California Transect, Reno to San Francisco; AEG annual meeting, field trip 2; October 5-10, 1986; 110 pp; general road log; (Stanford); [Mono, Alpine, Mariposa, Merced, Santa Clara, San Mateo, State of Nevada]; The trips were:

- 1 – Reno to Mammoth Lakes
- 2 – Mammoth Lakes to Yosemite
- 3 – Yosemite to San Francisco

McCellan, P.H.; 1986; San Andreas Fault and Pt. Reyes Peninsula; AEG annual meeting, field trip 3; October 5-10, 1986; 44 pp; general road log; (USGS); [Sonoma, Marin]; Note: the field trip stops were:

- 1 – Marin Headlands Terrane
- 2, 3, 4 – Salina Terrane on Pt. Reyes Peninsula
- 5 – Bodega Bay Nuclear Reactor Site

\*\*; 1986; Hayward Fault and East Bay hills; AEG annual meeting, field trip 4; October 5-10, 1986; (no copy known); \*\*\*

Baldwin, J. and Cotton, W.; 1986; Landslides and coastal processes, San Francisco Peninsula; AEG annual meeting, field trip 5; October 5-10, 1986; 95 pp; general road log; (private); [San Francisco, San Mateo]; Note: the stops were:

- 1 – Mussel Rock landslide
- 2 – Coastal Erosion Sharp Park District of Pacifica
- 3 – Oddstad Boulevard debris flow
- 4 – Engineering geology of the Devils Slide
- 5 – Seal Cove landslide complex – geotechnical hazard zonation
- 6 – Coastal protection at half moon bay
- 7 – San Andreas rift zone – Crystal Springs Reservoir to Mussel Rock

Rogers, J.D.; 1986; Landslide processes of the East Bay hills; AEG annual meeting field trip; October 5-10, 1986; 90 pp; general road log; (private); [Contra Costa, Alameda]

\*\*\*; 1986; San Francisco Bay- Delta tidal hydraulic model; AEG annual meeting, field trip 6; October 5-10, 1986; (may not have had a guidebook);

Wahrhaftig, C.; 1984; A Streetcar to subduction and other plate tectonic trips by public transportation in San Francisco; American Geophysical Union; revised edition; 76 pp; general road log; (private); [San Francisco, Marin, Alameda]; Note: This AGU guidebook was used for field trip 7 for the AEG annual meeting.

Dupre, W.R.; 1986; Quaternary geology of the Watsonville region, a field trip guide; AEG annual meeting field trip; October 5-10, 1986; 7 pp; detailed road log; (private); [Santa Cruz, Monterey]; Note: this was his PhD from Stanford in 1975 – title of thesis is “Quaternary history of the Watsonville lowlands, north-central Monterey Bay Region, Ca”. This appears to be an unofficial field trip. It was not listed in the meeting guide.

Byer, J.W. (leader); 1987; Selected landslides and stabilization projects of the Santa Monica Mountains, Los Angeles, California; AEG southern California section; June 20, 1987; 94 pp and two maps in rear pocket; detailed road log; (UCD); [LA]

Gath, E. and Cann, L.; 1988; Neotectonics of the Whittier Fault; AEG southern California section; June 4, 1988; no guidebook was issued for this field trip

Cann, L. and Steiner, E.; 1989; Engineering geology along coastal Orange County; AEG southern section, annual field trip, September 23, 1989; 207 pp; general road log; (UCB); [Orange]

Vantine, J.; 1989; The McLaughlin Mine field trip guidebook; AEG San Francisco section; April 28, 1989; 70 pp; general and detailed road logs; (private); [Marin, Sonoma, Napa, Lake]; Note: this guidebook is a combination of the 1988 AEG McLaughlin and the 1986 SEG field trips to the McLaughlin mine and surrounding area.

Baldwin, J.E. (editor); 1990; Guidebook first annual picnic Angel Island; AEG San Francisco section; October 21, 1990; 30 pp; no road log but single site field trip; (CDMG); [San Francisco]

Buckley, C.I. and Larson, R.A. (editors); 1990; Geology and engineering geology of the western Soledad Basin Los Angeles County, California; AEG, southern California Section; November 3, 1990; 185 pp and plates; detailed road log; (UCB); [LA]

Griggs, G.B. and Weber, G.E.; 1990; Field trip guide, coastal geologic hazards and coastal tectonics, northern Monterey Bay and Santa Cruz/San Mateo County coastlines; AEG San Francisco Section; March 3, 1990; 145 pp.; general road log; (UCB); [Santa Cruz, San Mateo]

**The October 1990, San Francisco section field trip was run in conjunction with the GRA and the AIGP. See the GRA section for the guidebook information (the authors were Jacobs and Bertucci)**

Blake, T.F. and Larson; R.A. (editors); 1991; Engineering geology along the Simi-Santa Rosa Fault system and adjacent areas, Simi Valley to Camarillo, Ventura County, California; AEG southern California Section; August 24, 1991; vol. 1 – 164 pp, vol. 2 – 380 pp; detailed road log; (UCB); [Ventura]

**The October, 1991, field trip for the San Francisco AEG section is listed in the NCGS section (the author was Figuers)**

Wieggers, M. (editor); 1991; Guidebook – second annual picnic Fitzgerald Marine Preserve Moss Beach, California; AEG San Francisco Section; November 2, 1991; 43 pp; general road log; (private); [Santa Cruz]; Note: the geology section was taken from the 1986 AEG field trip to this area.

**In April 1992, the San Francisco and Sacramento sections held a joint meeting with the AAPG pacific section that was held in Sacramento. See the AAPG listing for other guidebooks for this meeting. The AEG field trips were:**

Wright, B.; 1992; The effects of the 1989 Loma Prieta Earthquake; AEG San Francisco and Sacramento sections; April 29- May 1, 1992; \*\*\* no copy known

Reynolds, S.; 1992; Energy, mineral resources, and environmental geology of the lone area; AEG San Francisco and Sacramento sections; April 29- May 1, 1992; Note: no copy known (the author did not have a copy).

Ebersold, D.B. (editor); 1992; Landers earthquake of June 28, 1992, San Bernardino County, California: field trip guide; AEG southern section; October 10, 1992; 34 pp; general road log; (UCR); [San Bernardino]; Note: the field trip leader was Rasmussen, G.S.

**The 1992, AEG annual meeting was held in LA (held in conjunction with the AAPG section meeting).**

Sieh, K.E. and Matti, J.C.; 1992; Earthquake geology San Andreas Fault system Palm Springs to Palmdale: AEG annual meeting and AAPG section meeting; October 2-4, 1992; ~16 pp and 6 maps; detailed road log; (UCB); [Riverside, San Bernardino, LA]

Ehlig, P.L. and Steiner, E.A. (editors); 1992; Engineering geology field trips, Orange County, Santa Monica Mountains, Malibu; AEG national meeting in LA; October 9, 1992; ~280 pp and maps in rear pocket; detailed road logs; (UCB); [Orange, LA]; field trips are:  
 1 - Signal Hill and southern Orange County  
 2 - Santa Monica Mountains  
 3 - Malibu

Stirbys, A.F. (editor); 1992; Los Angeles Metro Rail System: AEG national meeting, field trip; October 4, 1992; 130 pp and plates; general road log; (UCD); [LA]

Merrill, J.D.; 1992; Santa Catalina Island; AEG national meeting, field trip; October 3, 1992; \*\* no copy known; (may have used the 1977 guide book to this area)

Pipkin, B.W.; 1992; Oceanography field trip; AEG national meeting, field trip; October 5, 1992; \*\*\* no copy known; (It is possible that there was no guidebook. This was a cruise on board an oceanographic vessel. They toured the Palos Verde Peninsula); [LA]

Grover, D.; 1992; Geology of the Star's Homes; AEG national meeting, field trip; October 5, 1992; AEG national meeting, field trip; October 4, 1992; no guide book, the field trip was not run.

Cotton, W.; 1992; Big Rock Mesa landslide field trip, Malibu area; AEG; 1992; 6 plates; no road log but single site field trip; (Stanford); [Ventura]; Note: the maps are E sized and show the geologic/engineering details of the landslide. Cotton made two of the maps and others made 4 of the maps. No separate text was provided.

Matthews, R.A., Moores, E.M., and Troxel, B.W.; 1993; Coast Range and Napa Valley geology and engineering geology; AEG Sacramento section field trip; October 16, 1993; ~150 pp and color maps; detailed road log; (CDMG); [Yolo, Napa]

**1994?**

Barnes, N.; 1995; Point Reyes National Seashore – Family Picnic; AEG San Francisco Section; September, 1995; \*\*\*; no road log; (no copy known); [Marin]

Van Velsor, J. and Wakabayashi, J.; 1995; Engineering geology and tectonic setting of the Point San Pedro-Devil's slide area, San Mateo County, California; AEG San Francisco section field trip; November 18, 1995; ~140 pp, color photographs; general road log; (private); [San Mateo]

\*\*\*; 1995; Ground failure during the January 17, 1994 Northridge Earthquake; AEG Southern Calif section field trip; November, 11, 1995; \*\*\*

Schwab, K.A. (chairperson); 1995; AEG/GRA Field Trip Guidebook, 1995 annual meeting Sacramento, California; AEG annual meeting held in conjunction with the GRA (Groundwater Resources Association); October 3-8, 1995; ~400 pp; general road logs; (private); [Sacramento, Amador, Solano, Napa, Yolo, El Dorado, Alpine, State of Nevada]; Note: the field trip guidebook was a three-ring binder that contained four field trips. The field trips were:

Franks, A. and Moss, G.; 1995; Geology of the Sacramento Area, Foothills, and Sierra Nevada Mountains; AEG national meeting; October 1-7, 1995; ~80 pp; general road log; (private); [Sacramento; El Dorado, Alpine, State of Nevada]; Note: A section on the Truckee river geology was handed out during the field trip. This section is commonly missing. Other handouts included: The Cool Quarry geologic background, a map of the northern foothills fault system, and information about the work of the Tahoe-Truckee sanitation agency (this may have been the Truckee river information). The field trip ended in Reno, Nevada.

Turney, J., Moores, E., Mathews, B., Troxel, B., and Kresse, F.; 1995; Geology and engineering geology of the Sacramento Valley to Napa Valley; AEG national meeting; October 1-7, 1995; 140 pp; general road log; (private); [Napa, Solano]

Carlson, D. (editor); 1995; Flood hazards and protection measures for the Sacramento Area; AEG national meeting; October 1-7, 1995; 72 pp; general road log; (private); [Sacramento, Yolo]

Glasmann, J.R and Wood, J.; 1995; Geology and geotechnical aspects of the Lone Clay formation; AEG national meeting; October 1-7, 1995; 104 pp; general road log; (private); [Amador]

Wakabayashi, J.; 1996; Cool under pressure: and exploration of high P/T metamorphism, the Franciscan complex of the San Francisco Bay area; AEG San Francisco section field trip; May 18, 1996; ~120 pp and hand out; general road log; (private); \*\*\*

Simpson, G. and Baldwin, J.; 1996; Welch Creek Paleoseismic trench site, field trip; AEG San Francisco section; August, 1996; (no copy known)

Steinpress, M.; 1997; Hydrology and environmental restoration of the Presidio of San Francisco; AEG San Francisco section; April 19, 1997; (no copy known); [San Francisco]

\*\*\*; 1997; The Eastside reservoir project; AEG Southern California Section field trip; April 26, 1997;

\*\*\*

## 1998?

\*\*\*; 1999; The Blackhawk and Halloran Hills long run-out avalanche deposits, Mojave Desert, California; AEG Southern California Section field trip; April 26, 1999; \*\*\*

**The 2000 AEG meeting was held in San Jose, CA. The field trip guides were issued in a single volume.**

Alvarez, L. (editor); 2000; From the Pacific Ocean to the Sierra Nevada: taming shaky ground; AEG San Francisco section and GRA joint field trip; September 19-26, 2000; ~120 pp; general road log; (Univ Texas Austin); [Mariposa, Sonoma, Santa Clara, San Francisco, Alameda, San Mateo, San Joaquin, Stanislaus, Merced], The field trips are:

- 1 – Yosemite Valley – Sierra Foothills
- 2 – Northern San Andreas Fault System and Sonoma County Slope Instability
- 3 – Santa Clara Valley supply dams and the Calaveras fault

- 4 – San Francisco Bay crossings: Gold Gate bridge, San Francisco-Oakland Bay bridge, and Bay Area Rapid Transit district tunnel
- 5 – Living with moving ground – landslides and coastal erosion in San Mateo County, California
- 6 – Engineering for surface ground rupture on the Hayward fault
- 7 – Engineering geology of west side of San Joaquin Valley aqueducts and groundwater/subsidence issues
- 8 – Silicon Valley groundwater

Bieber, D.W., Jones, D., and Sederquist, D.; 2000; Naturally occurring asbestos field trip; AEG Sacramento section; March 11, 2000; 8 pp; detailed road log; (private); [El Dorado]

Mailhot, R., Wilcox, G., and Ridsen, C.; 2001; History and geology of the Caldecott Tunnel; AEG San Francisco Section; June, 2001; no road log, but single site visit; (no copy known); [Alameda]; Note: the handouts were likely similar to the handouts for the NCGS 2001 field trip to the tunnel.

**The 2002 annual AEG meeting was held in Reno, NV. There were 8 field trips. The only one that extended into California was field trip 8. Field trip 3 looked at the frontal fault system on the east side of the Carson Range including the Mt. Rose fan and faults.**

Crafford, E.J. (editor); 2002; The Lake Tahoe Crapshoot: debris flow, rock slides, active faults, landslides and lahars, pick your luck number; AEG annual meeting in Reno, field trip 8; September 28, 2002; 29 pp; detailed road log; (private); [Nevada, Placer, El Dorado, State of Nevada]

Mathieson, E.L. (editor); 2002; Tunnels through fault rocks and tectonic mélanges: a short course for engineering geologists and geotechnical engineers; AEG San Francisco section field trip; May 31, 2002; ~100 pp and color figures; general road log; (private); [Contra Costa]

### 2003?

Wheeldon, G.; 2004; Wine & Rocks 2004 Field Trip; AEG Sacramento section; March 6, 2004; ~124 pp; detailed road log; (private); [Amador, Sacramento]; Note: the date in the guidebook is 9/13/03. This was the date the field trip was originally scheduled, but the field trip was canceled. It was rescheduled and held on March 6, 2004.

Kennedy, D.G. and Hitchcock, C.S.; 2004; Seismic hazard of the range front thrust faults northeastern Santa Cruz Mountains/southwestern Santa Clara Valley; AEG San

Francisco Section field trip; March 27, 2004; 126 pp.; general road log; (private); [Santa Clara]

\*\*\*; 2004; Auburn Dam field trip; AEG Sacramento section field trip; September, 2004; \*\*\*

\*\*\*; 2005; Santa Clarita to La Conchita Landslide, Ventura, California; AEG Southern California Section field trip; April 16, 2005; \*\*\*\*; (private); [LA, Ventura]

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The Deep Foundations Institute Augered Cast-in-Place Pile Committee Presents Two Events

## Augered Cast-in-Place Pile Short Course & Specialty Seminar

**May 4-5, 2006**

**Radisson Hotel at LAX**

**Los Angeles, California**



In Cooperation With:

AEG

ASCE Los Angeles Section Geotechnical Group

ASCE San Francisco Section Geotechnical Group

CSI Los Angeles

Geo-Institute of ASCE

SEA of California

SEA of Southern California

**Thursday, May 4th Short Course Program\***

- 8:00 - 8:30 Registration/Speakers Prep/Exhibitor Set-up
- 8:30 - 8:40 Welcome:Introduction to Program & Instructors:  
*Willie NeSmith, P.E., Berkel & Company*  
*Michael Moran, Cajun Constructors*  
*Matthew Meyer, P.E.*  
*Langan Eng. & Env. Services Inc.*
- 8:40 - 10:15 **Part 1:** Introduction – Historical Perspective, Terminology, Course Organization  
**Part 2:** Installation Processes and Equipment
- 10:15 - 10:30 Break & Exhibits
- 10:30 - 12:00 **Part 3:** Pile Materials  
**Part 4:** Effects of Pile Installation on Performance  
**Part 5:** Design – Axial Design of ACIP Piles in Fine-Grained and Granular Soils, and Intermediate Geo-materials
- 12:00 - 1:00 Lunch
- 1:00 - 2:30 **Part 5 Continued:** Design – Axial Design of Drilled Displacement Piles  
**Part 6:** Lateral and Seismic Issues – ACIP and DD Piles  
**Part 7:** Geotechnical Characterization  
**Part 8:** Specifications
- 2:30 - 2:45 Break & Exhibits
- 2:45 - 4:00 **Part 9:** Inspection  
**Part 10:** Automated Monitoring Equipment  
**Part 11:** Load Testing  
**Part 12:** Non-destructive Testing
- 4:00 - 4:30 Panel Discussion: All Presenters Question & Answer
- 4:30 - 5:00 Exhibitor Breakdown



**Friday, May 5th Seminar Program\***

- 8:00 - 8:30 Registration/Speakers Prep/Exhibitor Set-up
- 8:30 - 8:40 Introduction, Program Moderator:  
*Chris Shewmaker, Richard Goettle, Inc.*
- 8:40 - 9:00 Historical Perspective on ACIP Piles  
*Willie NeSmith, P.E., Berkel & Company*
- 9:00 - 10:15 Installation & Design of ACIP Piles  
*Dan A. Brown, PhD, Auburn University*
- 10:15 - 10:30 Break & Exhibits
- 10:30 - 11:15 ACIP Pile Inspector's Video CD-ROM
- 11:15 - 12:00 ACIP and Drilled Displacement (DD) Pile Quality Control – *Rudolph P. Frizzi, P.E.*  
*Langan Eng. & Env. Services Inc.*
- 12:00 - 1:00 Lunch
- 1:00 - 1:30 Extensive Static & Dynamic Load Test Program on ACIP Piles at U.C. Davis Medical Center  
*Camilo Alvarez, MS, P.E., GRL Engineers Inc.*
- 1:30 - 2:00 ACIP Load Test Program for the Solano County Government Center  
*Kenneth G. Sorensen, Kleinfelder*
- 2:00 - 2:30 Orange County Advanced Water Treatment Facility: A Case Study of the Design & Application of Drilled Displacement Piles  
*Gordon King, Morris Shea Bridge Company*
- 2:30 - 3:00 Drilled Displacement Pile Load Test Program, MacArthur Place, Santa Ana  
*W. Morgan NeSmith, Jr., Berkel & Company*
- 3:00 - 3:15 Break & Exhibits
- 3:15 - 3:45 Deep Foundations Aspects of the Playa Vista Development, Los Angeles  
*Michael D. Reader, RCE GE*  
*Group Delta Consultants*
- 3:45 - 4:15 Consideration of Drilled Displacement Piles for Liquefaction Mitigation  
*Timothy C. Siegel, Berkel & Company*
- 4:15 - 4:45 Panel Discussion: All Presenters
- 4:45 - 5:45 Adjourn/Cocktails: Meet & Greet
- 5:45 - 6:15 Exhibitor Breakdown

**\*Program Subject to Change**



## Come Informed!

DFI is offering the following Augered Cast-In-Place Piles publications at a discounted rate to attendees:

### **Augered Cast-in-Place Piles Manual, Second Edition, 2003** (Discounted Price: \$8.00)

*This model specification addresses current trends in ACIP Pile construction and quality control, including the use of increased ACIP pile diameters and lengths to sustain significantly higher load carrying capacities, and the challenges associated with the use of grout and reinforcement necessary to sustain such higher loading. The Guideline Specification has been arranged to more closely match the format typically utilized in project specifications.*

### **Inspector's Guide to Augered Cast-in-Place Piles, First Edition, 1994** (Discounted Price: \$8.00)

*This manual summarizes the requirements expected of all parties concerned in the successful installation of these piles. Step by step installation procedures, construction equipment and inspection tools are discussed along with the common potential problems. Sample inspection forms are provided.*

### **Augered Cast-in-Place Piles Installation Video, VHS, 1998** (Discounted Price: \$25.00)

*Describes the installation of augered cast-in-place piles, including the various pieces of equipment and materials used in construction. Contains animation of drilling through a layered subsurface, grouting of the pile and installation of reinforcing steel.*

### **Inspector's Guide to Augered Cast-in-Place Piles Video, VHS, 2000** (Discounted Price: \$25.00)

*Describes the techniques used in the inspection of augered cast-in-place piles to augment the Inspector's Guide to Augered Cast-In-Place Piles publication. This video is primarily intended for contractors, geotechnical consultants and their inspectors.*

### **Inspector's Guide to Augered Cast-in-Place Piles CDR & Viewable PDF** (Discounted Price: \$40.00)

*CD contains Quicktime Video, Inspector's Guide in Adobe PDF, Quicktime Install, Adobe Reader Install. Windows and Mac platforms supported. Video describes the techniques used in the inspection of augered cast-in-place piles.*

### **Proceedings of Past Augered Cast-in-Place Pile Seminars, 1997-2005** (Discounted Price: \$25.00 each)

*Each proceedings includes technical papers presented at that year's seminar, including information on installation, quality control and case histories.*

To receive publications before the seminar, get your registration into DFI HQ by April 10th!

## Event Information:

### **DFI Augered Cast-in-Place Pile Short Course & Specialty Seminar**

*Sponsored by the Augered Cast-in-Place Pile Committee*

May 4-5, 2006

Radisson Hotel at Los Angeles Airport  
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Covers one 6'x2' skirted table, two chairs, one attendee, breaks, lunch, registration materials, and handout binder

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### **Course Attendee Registration Fee**

Covers attendance of event, breaks, lunch, registration materials, and handout binder:

### **Seminar Attendee Registration Fee**

Covers attendance of event, breaks, lunch, reception, registration materials, and bound 2006 seminar proceedings.

### **Professional Development Hours**

Attendees will receive a certificate verifying 6 Professional Development Hours (PDH)\* for each day attended.

*\*The record keeping and determination of acceptability of DFI Professional Development Hours by state or government licensing bodies is the responsibility of the individual.*

### **Hotel Reservations**

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Specify **DFI 2006 ACIP Course & Seminar** for special \$100 Room Rate! This rate is discounted for DFI attendees and is subject to availability. Cut-off date is Wednesday, April 12<sup>th</sup>.

# Registration:

## Augered Cast-in-Place Piles

Mail or Fax (with credit card information) to:

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326 Lafayette Avenue Tel: 973.423.4030  
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- AEG  ASCE San Francisco
- ASCE Los Angeles

\* If you are a member of one of these organizations, please choose the member registration rate indicated in the next column.



### Register for Course, Seminar or both events below:

#### Thursday, May 4th Short Course

- Non-Member Registration \$325.00
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- Student Registration \$50.00  
*Does not include 2006 seminar proceedings*

#### Friday, May 5th Seminar

- Non-Member Registration \$325.00
- Member Registration \$275.00
- Seminar Exhibitor Registration \$600.00  
*Includes one attendee registration and one 6'x2' table. Table top displays only – no standing displays!*
- Student Registration \$50.00  
*Does not include 2006 seminar proceedings*
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### Come Informed!

#### Special Publication rates for seminar attendees:

- ACIP Pile Manual \$8.00
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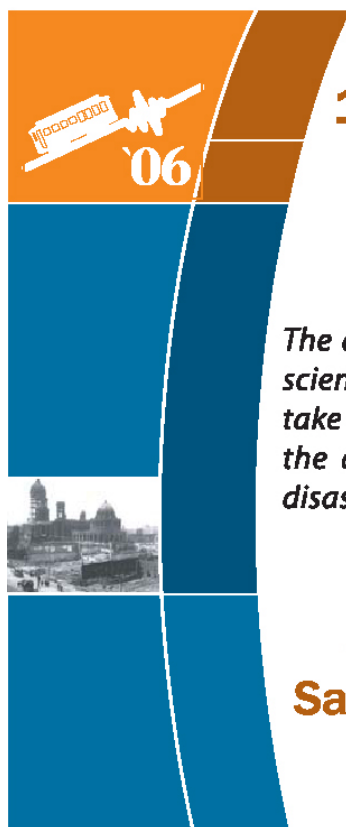
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### Chapter Meetings

#### **Inland Empire:**

April Meeting: Wednesday, April 19<sup>th</sup>

Time: 5:00 to 8:45

Location: California Grill, Temecula (27345 Jefferson Avenue), (951) 719-1282

Speaker: John A. Izbicki, Research Hydrologist, Water Resources Division, U.S. Geological Survey

Presentation Topic: "Artificial recharge through a thick, heterogeneous, unsaturated zone along The Oro Grande Wash, western Mojave Desert, California"

Please visit the Inland Empire web page at <http://www.aegsc.org/chapters/inlandempire/> for additional meeting information and directions.

#### **Central Coast:**

Monthly meetings will take place on the last Wednesday of every month at Rusty's Pizza in Goleta. Social hour begins at 6 pm, the meeting begins at 7pm.

For more information or to be added to the CA Central Coast Chapter email list, please contact Robert Urban via email at [robert\\_urban@urscorp.com](mailto:robert_urban@urscorp.com).

#### **San Diego:**

April Meeting: Friday, April 21<sup>st</sup>

Time: 6:00 pm

Location: Ninyo & Moore office, 5710 Ruffin Road, San Diego

Speaker: Hans Van de Vrugt, CEG, GP

Presentation Topic: "Geophysical techniques used in environmental and geotechnical investigations"

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\* The deadline for submitting an advertisement for next month's newsletter is Wednesday, April 26<sup>th</sup>.

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Contributions from corporations and individual members are greatly appreciated. Contributors will be listed in our newsletter throughout the year and can post their logo or business card in the newsletter if so desired. Please mail contributions made out to **AEG** to our section treasurer, Rosalind Munro.

**2006 MEMBERSHIP RENEWAL**

For those of you who have not yet renewed **(the deadline was November 1)**, are unsure about your membership status, or did not receive your membership dues statement, please contact AEG Headquarters at [www.aegweb.org](http://www.aegweb.org). You can renew your membership online. Please update your membership if you wish to continue to receive future issues of the newsletter.

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TerraPacific Consultants, Inc. is a San Diego based geotechnical consulting firm working on projects throughout the southwest. We concentrate on forensic engineering, evaluations for new commercial/industrial/custom residential construction, as well as, oversight during foundation repairs. We are seeking motivated engineers and geologists who are interested in finding solutions to challenging geotechnical problems.

Field work and out of town travel will be required on a regular basis throughout California, Nevada, New Mexico, Arizona, and Hawaii. All positions demand an organized self-starter with "hands-on" management ability.

We are looking for an honest, hard working, technically minded professional to perform subsurface investigations, collect field data, perform geotechnical analysis, and write reports. Construction inspections will also be required. Qualified candidates should possess good communication skills. Field work and out of town travel will be required on regular basis. Position demands a motivated, organized, self-starter with the ability to get things done in a timely manner.

We offer the ability to learn and grow your career by working with seasoned professionals. Please visit our web site at [www.terrapac.net](http://www.terrapac.net).

### **Senior Geotechnical Engineer**

Position responsibilities include project management, collecting field data, analysis, report writing, and client communication. Oversight of construction inspections will also be required. Qualified candidates must be a licensed G.E., have a minimum of 8 years experience and good communication skills. At least 2 years experience in geotechnical forensic investigations is preferred. Experience in testifying is a plus.

### **Project Geotechnical Engineer/Geologist**

Position responsibilities include project management, collecting field data, analysis, report writing, and client communication. Oversight of construction inspections will also be required. Qualified candidates must be a licensed PE (GE is a plus), PG or CEG, have a minimum of 5 years experience and good communication skills. At least 2 years experience in geotechnical forensic investigations is preferred.

### **Staff Geologist/Engineer**

We are looking for an honest, hard working, technically minded graduate to perform subsurface investigations, collect field data, perform geotechnical analysis, and write reports. Construction inspections will also be required. Qualified candidates should possess good communication skills. Some experience in geotechnical investigations is preferred but recent graduates will be considered. Field work and out of town travel will be required on regular basis. Position demands a motivated, organized, self-starter with the ability to get things done in a timely manner.

The right, qualified, independent and hard-working individual will be offered an excellent salary (commensurate with their experience), profit sharing/401K plan; company sponsored insurance program, and bonuses. If you are interested in pursuing quality in your life and your career please submit a resume and cover letter to: TerraPacific Consultants, Inc., 12245 World Trade Drive, Suite G, San Diego, CA 92128; or by fax to 858-521-1199; or by e-mail to [jimg@terrapac.net](mailto:jimg@terrapac.net).



**GEO TECHNICAL ■ ENVIRONMENTAL ■ MATERIALS**

Geocon is a full-service, employee-owned firm providing geotechnical, environmental and geologic engineering services, as well as construction observation and materials testing services for a wide variety of public and private clients. To share in our continued growth and success we are seeking qualified professionals for the following fields:

**SENIOR STAFF GEOTECHNICAL ENGINEER**

Senior Staff Geotechnical Engineer with 2 to 4 years experience. BSCE required, MSCE preferred. Registration desirable. Experience in land development a plus.

**PROJECT GEOTECHNICAL ENGINEER**

Project Geotechnical Engineer with 3 to 5 years experience. BSCE required, MSCE preferred. Registration required. Experience in land development a plus.

**ENGINEERING FIELD TECHNICIAN**

Engineering Field Technician with 2+ years experience desired but not mandatory. Land development and/or hillside experience a plus.

**STAFF ENGINEER/GEOLOGIST**

Staff Engineer/Geologist with 2 to 4 years experience. BS required, MS preferred. California registration (PE/PG) desirable. Must have previous experience with Phase I and Phase II environmental site assessments, remediation experience a plus.

**PROJECT ENGINEER/GEOLOGIST**

Project Engineer/Geologist with 4 to 7 years experience. BS required, MS preferred. CA Registration (PE/PG) required, REA II a plus. Must have previous experience with Phase I and Phase II environmental site assessments, and corrective action.

Excellent oral and written communication skills required. Geocon offers excellent benefits, compensation package and growth opportunity. For more information please contact one of the following offices:

**Bakersfield**  
 Geocon Inland Empire, Inc.  
 3501 Pegasus Drive  
 Bakersfield, California 93308  
 (661) 399-3365 Tel  
 (661) 399-3812 Fax

**Burbank**  
 Geocon Inland Empire, Inc.  
 3303 N. San Fernando Blvd., Suite 100  
 Burbank, California 91504  
 (818) 841-8388 Tel  
 (818) 841-1704 Fax

**Murrieta**  
 Geocon Inland Empire, Inc.  
 41571 Corning Place, Suite 101  
 Murrieta, California 92562  
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**San Diego**  
 Geocon Incorporated  
 6960 Flanders Drive  
 San Diego, California 92121  
 (858) 558-6900 Tel  
 (858) 558-6159 Fax

Additional offices in Las Vegas, Reno, Portland, Livermore and Sacramento.  
 Please see our website for more information:  
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## REVERSE CIRCULATION AND MUD ROTARY

This rig is capable of drilling large and small diameter boreholes 1000-2000' deep by conventional mud rotary or flooded reverse circulation. Casing can be handled up to 30" in diameter and up to 40' in length. Fluid circulation is by auxiliary air compressor or on-board mud pump (GD 7 ½ x 10). This rig is also equipped with dual-swab airlift and water sampling equipment.

Equipment includes: Vermeer R300 mud cleaning /recycler system, drill pipe is 6 5/8IF or 4 1/2IF., drill collars, forklift, lift pump, support trailers, auxiliary pump, 1000 gallon fuel cell, and misc hand tools .



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Telephone: 909-425-9998 Fax: 909-421-9070 Email: [bestdril@aol.com](mailto:bestdril@aol.com)  
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## **Mid-to-Senior Level Engineer San Francisco, CA Tetra Tech EM Inc. (EMI)**

The Freedom to Grow: It is ours at **Tetra Tech EM Inc. (EMI)**, a leading environmental and management consulting firm. As an organization of entrepreneurs, creative thinkers, and problem solvers, we provide a free market for initiative and risk taking, where each team member has the freedom and responsibility to create opportunity for themselves and the business.

Join us, we are seeking an Engineer to support cleanup efforts at Navy Installations in the San Francisco Bay Area. Responsibilities include providing senior technical input and execution for RIs, FSs, PPs, and RODs developed under CERCLA. Candidate will manage teams in the execution of field work, acquisition of data, interpretation of data, development of technical recommendations, and preparation of reports. Candidate will be expected to interact daily with clients, meet with regulatory agencies on a frequent basis, manage fixed price budgets, and mentor project staff.

**Experience Requirements:** Minimum of 5-10 years experience. Project leadership and project management experience commensurate with years of service, with a range of clients from both public and private sector. Experience performing a diversity of projects supporting air quality, due diligence, soil and groundwater remediation, hazardous waste, and CEQA/NEPA projects is desired. CERCLA documentation experience including RIs, FSs, PPs and RODs also desirable. Project Management experience should include large-scale projects under federal cleanup programs such as CERCLA. Experience in groundwater remediation and monitoring, and engineering analyses, cost estimating and value engineering are also desirable. Must demonstrate understanding of current state of environmental practice for environmental assessment, remediation and closure.

**Skills Requirements:** Strong written and oral communication skills, technical writing, and quality review experience are necessary. Must demonstrate ability to work with an interdisciplinary team environment, to manage fast-paced work effectively, and manage consulting projects under a fixed price. Project management skills including cost estimating, project scheduling, and team staffing are required.

**Education Requirements:** BS in Engineering required. MS with professional registration (PE) strongly preferred.

We are empowered to use our talents and live our dreams. We envision. We innovate. And we create – better lives for the world around us. That's serious work. Yet our methods are open, collaborative, caring ... and fun. To apply, send resume & cover letter (**indicating Job ID # EMI-SF-90**) to:

**Tetra Tech EM Inc. (EMI)**  
**Attn: HR/EMI-SF-90**  
**135 Main Street, Suite 1800**  
**San Francisco, CA 94105**  
**Fax: 415-543-5480**  
**E-mail: [Resumes.SF@ttemi.com](mailto:Resumes.SF@ttemi.com)**

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**PARSONS BRINCKERHOFF QUADE & DOUGLAS**, a world-wide leader in the planning, design and construction management of transportation projects, is seeking entry to senior level geotechnical / underground /tunneling engineers for the San Francisco Bay Area. This is a prime opportunity to work on large size, high profile, technically challenging infrastructure projects which improve the quality of life for the people our clients serve. Candidates should have a MS, EIT/PE certification, strong verbal, written, and computer skills and willingness to travel. Submit resume with cover letter to [fongm@pbworld.com](mailto:fongm@pbworld.com) for consideration. For more information, visit [www.pbworld.com](http://www.pbworld.com).

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