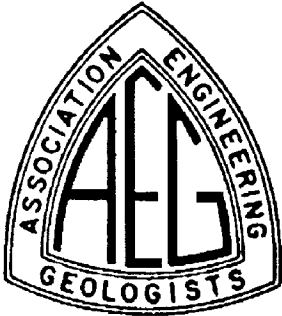


# Association of Engineering Geologists

Southern California Section

## NEWSLETTER - March 1990



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### Dinner Meeting **Tuesday March 13th** Annual Joint Meeting with the American Society of Civil Engineers (ASCE) - Geotechnical Group

- The Quiet Cannon Restaurant  
901 North Via San Clemente  
Montebello
- Cost - \$20.00 (Full-Time Students - Free)
- For reservations call by March 9th  
**Marion (818) 889-0844** (Grover Hollingsworth & Assoc.)  
(Leave Your Name & Number of People in Your Party)

**Make reservations by Noon on the Friday before the Meeting**

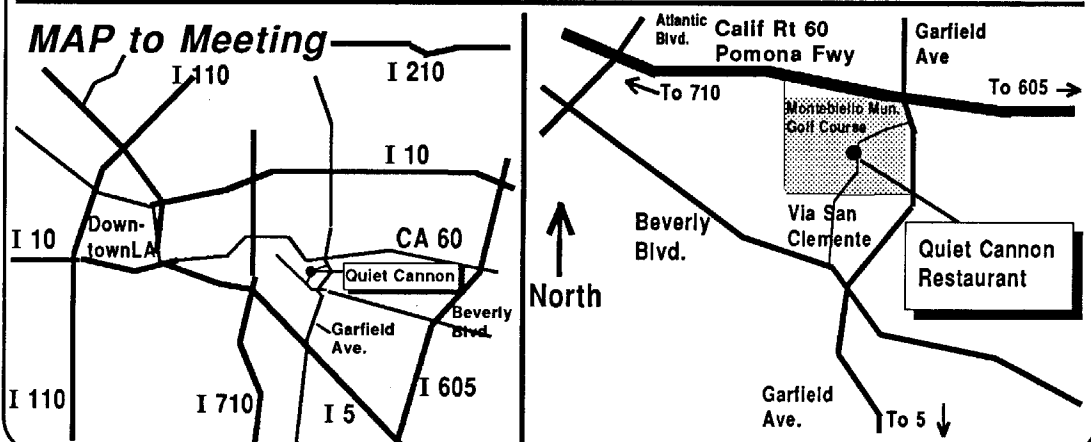
- 5:30 Social Hour
- 6:45 Dinner
- 7:30 Announcements
- 8:00 Program

### Program

#### TOPIC

**California Earthquakes & Crustal  
Deformation: The Emerging Role  
of Geodetics**

**SPEAKER Prof. David D. Jackson- Seismologist  
Dept. of Earth and Space Sciences at UCLA**



# Program

## Topic & Speaker

California Earthquakes and  
Crustal Deformation: The  
Emerging Role of Geodetics  
Prof. David D. Jackson

Prof. David D. Jackson will speak about his primary research interest: the relationship between earthquakes and plate tectonics, and how to quantify earthquake hazard in California using geodetic measurements of ground deformation. Geodetic measurements are continuing to become more precise and accurate. Their use will increase our understanding of physical changes of the earth.

Prof. Jackson is a seismologist, teaching in the Department of Earth and Space Sciences at UCLA since 1969. His research interests run from serious things like mathematical inference methods to ridiculously optimistic efforts such as earthquake prediction. He is the Secretary of the Seismology Section of the American Geophysical Union, a member of the California Earthquake Prediction Evaluation Council, which advises the California Office of Emergency Services concerning earthquake risk. He is perhaps best known to the public for setting earthquake prediction research back 10 years by discovering that the infamous "Palmdale Bulge" never did: it was the result of survey error.

THIS MONTH

March 1990



Kelly E. Rowe  
Hydrogeologist

The meeting this month, Tuesday - the 13th, is the AEG SCS Annual Joint Meeting with the ASCE -Geotechnical Group. The topic of the program is the emerging role of geodetics toward monitoring California earthquakes and crustal deformation, discussed by Prof. David Jackson, from UCLA.

Next month Robert Schuster, with the USGS, will speak about "Landslide Dams: A World-Wide Geologic Hazard". Robert is presently studying landslide dams in Tibet.

Please note that the MAY 1990 AEG SCS meeting will be held at the Odyssey Restaurant, at 15600 Odyssey Drive, in Granada Hills. It is in the north-central San Fernando Valley area, along CA 118, west of the 5 and 405 interstate highways. The selection of this site for the May meeting is to provide a more convenient location to meet for the AEG members living in the western and northern Southern California Section area. It is obviously difficult for members working in the Santa Barbara, Ventura or Bakersfield areas to come to meetings at the Quiet Cannon Restaurant, in Montebello. A similar relocation of the monthly meeting will occur in September at a restaurant in southern Orange County, to attract San Diego and Orange County AEG SCS members.

Last month, Wade Wells, with the U.S. Forest Service's Forest Fire Laboratory in Riverside California, spoke about the role of fire in erosion processes and debris flow generation. Wade showed a series of slides describing these processes and also showed experiments on and evidence of the action of erosion. Following his talk, a video tape was shown documenting their experimental work in the San Gabriel Mountains inducing debris flows. Wade said that about 90 % of debris flow problems occur within the first year following a fire. Slopes will "repair themselves" within 1 to 3 years following a fire. One of the erosion process concepts Wade spoke about was the "non-wetted layer", a water repellent soil

Continued on page 3

Continued from page 2

horizon developed as a result of partially decomposed, burned vegetative matter on slopes. This is the organic residue of the fire penetrating a few inches into the soil.

In regard to erosion control, **Ed Kiesling**, from the CDMG LA office, came to the February meeting with a copy of "*Erosion and Sediment Control Handbook*". It is a publication of the California Dept. of Conservation Resources Agency from May 1981 (reprinted). It is free upon request and can be obtained by writing to: Dept. of Conservation - Office of Land Conservation, 1516 9th St. (#400) Sacramento, CA 95814.

**Robert Larson**, AEG member with LA County PWD, sent the following article from the "Malibu Surfside News" December 28, 1989 "Sheriff's Report" column. It gives one pause for thought when planning to perform work in remote areas for unfamiliar clients.


#### Surveyor's Struggle

The victim, a geological engineer, told deputies he was contacted by a man who alleged he was in need of a geological surveyor to make a survey of what he said was his property off Mulholland Highway. When the victim arrived at the appointed time and place to meet the man, a person (the suspect) approached and identified himself as a representative for the property owner. He then led the victim down a dirt road to the supposed site for surveying, the victim recounted. The victim observed that the suspect was wearing white biking gloves and carrying a wood stick. Suddenly, the victim said, he felt a sharp blow to the back of his head and he fell to the ground. The suspect allegedly struck him several more times on his back. Thinking the suspect was going to kill him, the victim began to fight back. But the suspect forced him down onto his back and held the stick pressed to his throat, to the point of strangulation, causing the victim to nearly lose consciousness. The suspect allegedly told the victim to give his wallet to the suspect, who released his hold, threw the stick into some nearby bushes and walked away instructing the victim not to move or he would shoot him, although the victim never saw a gun. Waiting a few minutes, the groggy, aching victim got up, took a rock for protection and headed to the road. When he reached the highway, the suspect and his motorcycle were gone. The victim flagged down a passing vehicle driven by Department of Water and Power employees, who contacted emergency personnel. The victim was treated and transported to a hospital where doctors administered to a 3 1/2 " laceration on the top rear of his head. Deputies found the weapon at

the crime scene along with a pair of sunglasses belonging to the suspect as identified by the victim. There were several puddles of blood on the ground and evidence of a struggle. The suspect was tracked to a location, but deputies were told he had moved. They were told his real estate agent might know his whereabouts, but she was on vacation for two weeks. The victim's secretary was unable to provide a return telephone number for the man the victim was supposed to meet.

The Geology Alumni Assoc. from San Diego State Univ. (SDSU) will hold their 4th Annual Alumni Assoc. Banquet - Mexican Cuisine & Dancing to Live Music For reservations or if you need additional information call **Eugenia Sangines (619) 541-0883** (by March 15). Or write to **Eugenia c/o Dames & Moore**, 9665 Chesapeake Drive, Suite 360, San Diego, CA 92123.

The Dibblee Geological Foundation has set Saturday, May 5th, as the date for "A Day in the Field with Tom Dibblee in the Santa Monica Mountains". The foundation is asking for a minimum donation of \$35.00 per person. The left-over proceeds from this event will be used to publish additional geologic maps of the current Dibblee - Santa Monica Mountains series. The previous "Day in the Field with Tom Dibblee" was a great success for all participants. For reservations please contact, by April 20th, **John R. Powell (805) 653-5556** or write to **John, c/o Staal, Gardner & Dunne, Inc.**, 121 North Fir St., Suite F, Ventura, CA 93001. **Helmut (805) 968-0481** is also a contact for this event.



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## Seminars/Meetings/Field Trips

### MARCH 1990

- 1-Papers due for: Mojave Desert Quaternary Research Symposium (May)**  
The Mojave Desert Quaternary Research Center San Bernardino County Museum. CONTACT: (714)798-8570. Jennifer Reynolds, Editor LMDQRC San Bernardino County Museum, 2024 Orange Tree Lane, Redlands, CA 92374
- 12-15<sup>th</sup> 3rd Annual Symposium on Application of Geophysics to Engineering and Environmental Problems (SAGEEP '90).** Colorado School of Mines, Golden. CONTACT: Sageep '90. c/o Colorado ARC Enterprises, Ltd., 133 S. Van Gordon, Suite 200, Lakewood, CO 80228 (303-980-1648)
- 18-23<sup>rd</sup> ACSM Annual Meeting '90: Countdown to the 21st Century** Denver, CO. American Congress on Surveying and Mapping. CONTACT: (703) 241-2446. ACSM, 210 Little Falls St., Falls Church, VA 22046.
- 19-22<sup>nd</sup> NCGA '90** Anaheim, CA. National Computer Graphics Association. CONTACT: (800) 225-NCGA or (703) 698-9600, NCGA 2722 Merilee Drive, Suite 200, Fairfax, VA 22031
- 19-23<sup>rd</sup> 5th Seismic Design and Analysis of Small and Medium Earth and rockfill Dams** St. Louis, MO. Univ. of Missouri at Rolla Continuing Education (UMRCE). CONTACT: UMRCE (800)752-5057 Continuing Education, 119 Mechanical Engineering Annex, UMR, Rolla 65401-0249
- 24<sup>th</sup> Annual San Diego State Geology Alumni Assoc. Banquet** San Diego Natural History Museum, Balboa Park, San Diego, CA COST: \$25.00 per person, Students \$15.00. CONTACT: Eugenia Sangines(619)541-0883 (by March 15) c/o Dames & Moore, 9665 Chesapeake Dr., Ste 360, San Diego, CA 92123.

### APRIL 1990

- 2-6<sup>th</sup> Annual Engineering Geology and Soils Engineering Symposium** Idaho State University, Pocatello, Idaho **Short Course 2-3: Design of Shallow Foundations with Microcomputers.** CONTACT: (208)236-3273 - Dr. Robinson, Office of Contin. Educ., Non-credit Programs P.O. Box 8062, Pocatello, ID 83209
- 2-6<sup>th</sup> 12th Annual Groundwater Analysis and the Design of Dewatering Systems** Orlando, FL. Univ. of Missouri at Rolla Continuing Education (UMRCE). CONTACT: UMRCE (800)752-5057 Continuing Education, 119 Mechanical Engineering Annex, UMR, Rolla 65401-0249
- 2-6<sup>th</sup> 4th Annual Short Course on Soil Dynamics and Foundation Engineering** St. Louis, MO. Univ. of Missouri at Rolla Continuing Education (UMRCE). CONTACT: UMRCE (800)752-5057 Continuing Education, 119 Mechanical Engineering Annex, UMR, Rolla 65401-0249
- 8-12<sup>th</sup> High Level Radioactive Waste Management** CONTACT: ASCE.
- 9-11<sup>th</sup> UNIX\*C +** San Francisco, CA. USENIX Association. CONTACT: USENIX Conf. Office, (714)588-8649 22672 Lambert St., Ste. 613, El Toro, CA 92630.
- 16-20<sup>th</sup> 14th Embankment Dams-Soil Aspects** Orlando, FL. Univ. of Missouri at Rolla Continuing Education (UMRCE). CONTACT: UMRCE (800)752-5057 Continuing Education, 119 Mech. Engineering Annex, UMR, Rolla 65401-0249
- 17-19<sup>th</sup> HAZMACON '90** Anaheim, CA. Assoc. of Bay Area Governments (ABAG), AEG, et al., Hazardous Materials Conference Expo. CONTACT: (415)464-7951 Terry Bursztynsky, P.E., ABAG, P.O. Box 2050, Oakland, CA 94604
- 17-20<sup>th</sup> Short Course - High Resolution Common Offset Shallow Seismic Reflection Surveying** Sunnyvale, CA. EG&G Geometrics CONTACT: (408)734-4614 Myra Crettol, EG&G Geometrics, 395 Jave Drive, Sunnyvale, CA 94089
- 17-20<sup>th</sup> The National Forum on Education and Continuing Development for the Civil Engineer - Setting the Agenda for the 90's and Beyond** Las Vegas, NV. ASCE - at Ceasars Palace and UNLV CONTACT: Amer. Soc. Civil Eng., Education Activities Division, P.O. Box 832, Somerset NJ 08873-0832.
- 22<sup>nd</sup> EARTH DAY - 20 YEARS LATER**, at locations throughout the U.S. and around the world. Theme: What has happened over the last 20 years and what direction are we going to preserve and improve our living space.
- 30-5/4<sup>th</sup> 12th Annual Fundamentals of Grouting** Denver, CO. Univ. of Missouri at Rolla Continuing Education (UMRCE). CONTACT: UMRCE (800)752-5057 Contin. Educ., 119 Mech. Engin. Annex, UMR, Rolla 65401-0249

### MAY 1990

- 5-Saturday A Day in the Field with Tom Dibblee in the Santa Monica Mountains** Malibu State Park, CA. \$35/person CONTACT: (805) 653-5556 John Powell, c/o Staal, Gardner & Dunne, Inc. 121 North Fir Street, Suite F, Ventura, CA 93001, or (805) 968-0481 Helmut Ehrenspeck. Dibblee Geological Foundation, P.O. Box 60560, Santa Barbara, CA 93160
- 7-9<sup>th</sup> UNIX EXPO West** Los Angeles, CA. Los Angeles Convention Center. CONTACT: National Expositions Co., Inc., 15 W. 39th Street., N.Y., NY 10018.
- 7-11<sup>th</sup> Petroleum Hydrocarbons and Organic Chemicals in Ground Water: Use of Models for Site Assessment and Remediation** Cost: \$1,250. Los Angeles Airport Marina Hotel, 8601 Lincoln Blvd. Marina del Rey, CA CONTACT: (619)943-7694 Lois Elms, Coordinator, Hydrocarbons in Ground Water, 6992 El Camino Real, Suite 104-263, Carlsbad, CA 92009.
- 14-17<sup>th</sup> Fourth National Outdoor Action Conference on Aquifer Restoration, Ground Water Monitoring and Geophysical Methods** Las Vegas, NV. NWWA CONTACT: (614)761-1711 National Water Well Assoc. P.O. Box 182039, Dept. 017, Columbus, OH 43218

### 14<sup>th</sup> AEG So. Calif. Section - Monthly Meeting in San Fernando Valley

- 14-18<sup>th</sup> Hands-on 5-day Laboratory May 19-24** Rolla, MO. Univ. of Missouri at Rolla Continuing Education (UMRCE). CONTACT: UMRCE (800)752-5057 Contin. Education, 119 Mechanical Engineering Annex, UMR, Rolla 65401-0249
- 18-21<sup>st</sup> Presentation of Papers & Field Trip for: Mojave Desert Quaternary Research Symposium** The Mojave Desert Quaternary Research Center San Bernardino County Museum. CONTACT: (714)798-8570. Jennifer Reynolds, Editor LMDQRC San Bernardino County Museum, 2024 Orange Tree Lane, Redlands, CA 92374

### JUNE 1990

- 12-13<sup>th</sup> Short Course - Magnetometer Surveying** Sunnyvale, CA. EG&G Geometrics CONTACT: (408)734-4614 Myra Crettol, EG&G Geometrics, 395 Jave Drive, Sunnyvale, CA 94089
- 21-22<sup>nd</sup> International Symposium on Mapping & Geographic Information Systems** San Francisco, CA CONTACT: A. Ivan Johnson, A. Ivan Johnson, Inc., 7474 Upham CT. Arvada, CO 80003 (303)425-5610.

### AUGUST 1990

- 12-15<sup>th</sup> CONSERV 90: The National Conference and Exposition Focusing on Water Supply Solutions for the 1990s.** Phoenix, AZ. CONTACT: Conserve 90, 6375 Riverside Dr., Dublin, OH 43017 (614)761-1711
- 12-17<sup>th</sup> IBM PC Applications in Ground Water Pollution and Hydrology: A Hands-On Short Course** Dublin, OH. Assoc. of Ground Water Scientists and Engineers (NWWA). CONTACT: NWWA (614)761-1711/P.O. Box 182039/Dept. #017/ Columbus, Ohio 43218.

### SEPTEMBER 1990

- 10<sup>th</sup> AEG So. Calif. Section - Monthly Meeting in Southern Orange County**
- 19-22<sup>nd</sup> Short Course - Shallow CDP Seismic Reflection Surveying** Sunnyvale, CA. EG&G Geometrics CONTACT: (408)745-6131 Myra Crettol, EG&G Geometrics, 395 Jave Drive, Sunnyvale, CA 94089

### OCTOBER 1990

- 1-5<sup>th</sup> 33rd Annual Meeting of the Association of Engineering Geologists** Pittsburgh, Pennsylvania. Technical sessions, three short courses, two symposia & several field trips.
- 1-3<sup>rd</sup> Theory and Practice of Ground Water Monitoring and Sampling** Long Beach, CA. Assoc. of Ground Water Scientists and Engins. (NWWA). CONTACT: NWWA (614)761-1711/P.O. Box 182039/Dept. #017, Columbus, OH 43218.
- 23-25<sup>th</sup> A Comprehensive Approach to Development and Protection of Ground Water** San Francisco, CA. Assoc. of G W Scientists and Engins. (NWWA). CONTACT: (614)761-1711/P.O. Box 182039/Dept. #017/ Columbus, Ohio 43218.

### NOVEMBER 1990

- 4-9<sup>th</sup> Symposium on Urban Hydrology** Denver, CO. Amer. Water Resources Assoc. (AWRA). CONTACT: AWRA (301)493-8600 5410 Grosvenor Lane, Suite 220, Bethesda, Maryland 20814-2192.
- 6-8<sup>th</sup> Theory and Application of Vadose Zone Monitoring, Sampling, Remediation** Las Vegas, NV. Assoc. of Ground Water Scientists and Engineers (NWWA). CONTACT: NWWA (614)761-1711/P.O. Box 182039/Dept. #017/ Columbus, Ohio 43218.
- 9<sup>th</sup> Environmental Site Assessments One-Day Legal Course** Las Vegas, NV. Assoc. of Ground Water Scientists and Engineers (NWWA). CONTACT: NWWA (614)761-1711/P.O. Box 182039/Dept. #017/ Columbus, Ohio 43218.

## Other Local Professional Meetings Held Regularly

- Coast Geological Society:** Dinner meetings every third Tuesday of the month, October-June; American Legion Hall, 83 S. Palm St., Ventura, CA.
- Inland Geological Society,** Dinner Meeting third Thursday of each month, San Bernardino County Museum, Orangetree, Redlands, CA Contact: Jay Martin (714)888-2422.
- Los Angeles Basin Geological Society:** Lunch meetings third Thursday of every month; now at Luminarias Restaurant, Monterey Park, CA
- San Diego Association of Geologists:** Dinner meetings third Wednesday of every month - locations throughout San Diego area. Contact: (619)292-8030 (Leighton & Assoc., San Diego office)
- San Joaquin Geological Society:** Dinner meeting second Tuesday of every month except July-September, American Legion Hall, 2020 "H" Street, Bakersfield, CA
- South Coast Geological Society, Inc.:** Dinner Meetings first Monday of each month, Revere House, 900 West First Street, Tustin, CA

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### Career Opportunities For Hydrogeologists, Geologists, Civil & Environmental Engineers

Openings are available for entry level (0-4 yrs experience) Hydrogeologists, Geologists and for senior level Civil & Environmental Engineers. Openings are available in the City of Industry office and the Newport Beach office. In addition, positions for experienced ground water and soils remediation specialists are available in offices throughout the United States. Salary is negotiable and is commensurate with experience.

CONTACT: (818) 965-4048 Tom Sheahan-Industry  
or (714) 474-9344 Jim Norman-Newport Beach  
or send resume to:  
Geraghty & Miller, Inc.  
Attention: N. Thomas Sheahan  
17800 Castleton St. #175  
City of Industry, CA 91748

### Career Opportunity For Geotechnical/Civil Engineer

Immediate openings are available for a California registered candidate with 5 to 10 years experience. Projects will include but not be limited to landfill design and construction which entails liner systems, surface and subsurface drainage, and pipeline design. Also, future possibilities may include setting up a soil testing laboratory and remediation systems design. Excellent communication and writing skills required, hydrology experience a plus.

CONTACT: (818) 848-0214 or send resume to:  
Law Environmental, Inc.  
3320 N. San Fernando Blvd.  
Burbank, CA 91504  
Attn: J. Johnson

### Career Opportunity For

Senior Hydrogeologist & Staff Environmental Scientist Management and staff level positions are available in the Burbank office. Salary is negotiable and commensurate with experience. Management positions requirements: California registrations, 5 to 10 years of experience, excellent communication and supervisory skills. Computer literacy a plus.

CONTACT: (818) 848-0214  
or send resume to:  
Law Environmental, Inc. (same address as above)

### Career Opportunity For Geoenvironmental Project Managers

Openings are available for Geoenvironmental/Waste Management Project Managers in Ventura, Los Angeles, and Sacramento offices. Duties will include development and management of environmental assessment, soil and ground-water contamination/remediation projects. Requirements are a record of successful project development and management; B.S or M.S degree (preferred), 3+ years experience registration and excellent technical and communication skills. Salary is negotiable and is commensurate with experience.

CONTACT: (805) 644-5535 or send resume to:  
McClelland Consultants Attention: Michael R. Ploessel  
2140 Eastman Avenue  
Ventura, CA 93003

### Career Opportunity For Senior Engineering Geologist

Opening is available for a Senior Engineering Geologist. Duties will include planning and supervision of comprehensive engineering geological studies and be the Senior Consultant on complex multi-disciplinary projects. Requirements are M.S degree, 5+ years experience C.E.G. and excellent technical and communication skills. Salary is negotiable and is commensurate with experience.

CONTACT: (805) 644-5535 or send resume to:  
McClelland Consultants (same address as above)

### Career Opportunities For Engineering Geologists

Several positions are available in the Riverside County Planning Department. Current Opening: Special Projects Division. Successful candidate would perform geological research and analysis for environmental impact statements and the seismic safety and other safety elements of the County General Plan. Duties would include, for example, review of outside reports and assistance to other County departments as needed. Qualifications: Bachelor's degree in geology or engineering geology. Selection procedure: Applicants who meet the minimum requirements will be referred to the department for employment consideration. Monthly salaries range for the following positions from: Assist. Eng. Geol.-Registered (CEG): \$3,178 to \$3,938; Assist. Eng. Geol.: \$3,012 to \$3,731; Jr. Eng. Geol.: \$2,691 to \$3,334.

CONTACT: (714) 787-6125 or send resume to:  
Riverside County Personnel Dept.  
County Administrative Center  
4080 Lemon Street, Room 109  
Riverside, CA 92501-3664

### Career Opportunity For

Hydrogeologists, Geologists & Environmental Engineers Openings are available for entry level through senior level Hydrogeologists, Geologists and Engineers. Environmental experience should include proven field experience in UST programs, site characterization, remedial action plans and/or feasibility studies for soil and ground water contamination. Requirements are a record of successful project development and management. Excellent verbal and written skills required. Advanced degree preferred. Competitive salary.

Send resume to:  
Converse Environmental West  
Attention: J.A. Campbell  
67 W. Bellevue Dr, Pasadena, CA 91105

### Career Opportunity For Staff Geologists

Openings are available for staff level positions in the engineering geology department of the San Bernardino office. Requirements include a bachelor's degree in Geology, approximately 2 years of experience in engineering geology (understanding of mass grading a plus), and writing and communications skills. Salary is negotiable and commensurate with experience.

CONTACT: (714) 889-8004

or send resume to:

Converse Consultants Inland Empire  
Attention: David B. Simon  
630 E. Brier Drive, Suite 100  
San Bernardino, CA 92408

### Career Opportunity For Geologist/Hydrogeol./E.G.

Opening is available for a project level Geol./Hydrogeol./Eng.Geol. with 3 to 5 years experience to direct field operations for characterization of contaminated sites. Strong candidate will have detailed knowledge of drilling, sampling, and installation of ground-water monitoring wells, excellent communication skills and be computer literate with writing skills. Salary is negotiable and is commensurate with experience.

CONTACT: (714) 541-9353

or send resume to:

Remedial Action Corp.  
Attention: David A. Sommers  
505 N. Tustin Ave., Suite 160  
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Kelly E. Rowe  
AEG Secretary/Newsletter Editor  
c/o Geraghty & Miller, Inc.  
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