

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

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

***NEWSLETTER – March 2006***

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**Meeting Date:**

**Tuesday, March 14<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:** Jerry D. Higgins, Ph.D., P.G.

**Topic:** **ROCK-FALL ANALYSIS AND MITIGATION**

**Abstract:**

Rock fall refers to the detachment of rock from a steep slope along a surface on which little or no shear displacement occurs. The material rapidly descends a slope by falling, bouncing, or rolling. Except when the displaced rock has been undercut, falling will be preceded by small sliding or toppling movements that separate the displacing material from the undisturbed mass. Rock fall may involve more than one rock, but does not include large volumes such as rock slides.

The traffic on highways crossing steep topography has steadily increased resulting in an increase in the number of rock-fall related accidents and deaths. In the past 20 years or so, transportation departments have become increasingly concerned with identifying rock-fall hazard and attempting to reduce the risk of accidents along heavily traveled routes. The resulting research has led to the development of new management, analyses and mitigation techniques that make it possible to stabilize or control many of the smaller, but high risk, potential rock falls. Today, these developments are commonly applied throughout civil, environmental, and mining practice.

Engineering geologists have had the tools for many years to recognize structural or environmental conditions that may increase the potential for rock-fall events. Research in the early 1960s developed an empirical method to design effective rock-fall catchment ditches along roadways. Beginning in the 1980s several computer programs were written and tested that were effective in helping engineering geologists predict how rocks behave as they bounce down slopes, which aided in catchment ditch design or the placement and design of rock-fall barriers on the slope. Several versions of rock-fall inventory systems were developed to aid engineering geologists in selecting priorities for remediation. Many full-scale rock-rolling experiments have been conducted for calibration of computer programs or as a basis for design of barrier or ditch systems. Various types of rock-fall barriers were designed and underwent full-scale testing. Today rock-fall analysis and mitigation has become relatively sophisticated and geologists and engineers have the tools to analyze slopes for rock-fall hazard and to construct rather sophisticated stabilization or catchment systems.

This presentation will review the development of important rock fall assessment and analysis tools, the various mitigation techniques, and full-scale-testing of rock-fall barriers.

### Speaker Bio

Jerry D. Higgins, Ph.D., P.G. is the 2006 Jahns Distinguished Lecturer. The Association of Engineering Geologists and the Engineering Geology Division of the Geological Society of America (GSA) jointly established the Richard H. Jahns Distinguished Lectureship in 1988 to commemorate Jahns and to promote student awareness of engineering geology through a series of lectures offered at various locations around the country throughout the year. Richard H. Jahns (1915-1983) was an engineering geologist who had a diverse and distinguished career in academia, consulting, and government.

Dr. Higgins has served on the Geology and Geological Engineering faculty at the Colorado School of Mines since 1986. He received a B.S. Geology degree from Missouri State University (1969) and M.S. Geology and Ph.D. Geological Engineering degrees (1975 and 1980) from the University of Missouri-Rolla. Prior to coming to CSM, Dr. Higgins served on the civil engineering faculty at Washington State University and as a geological engineer with a consulting engineering firm and with the City of Springfield, Missouri.

Dr. Higgins has taught many engineering geology courses and short courses. His major areas of research are slope stability, rockfall analysis and mitigation, debris flow mechanics, seismic hazard assessment, geotechnical design in loess, characterization of expansive bedrock, construction materials characterization, and engineering geologic mapping. He has completed over \$1.4 million in funded research from government and private industry. He was a contributing author to the Transportation Research Board (TRB) publication "Landslides: Investigation and Mitigation", coauthored the internationally known Colorado Rockfall Simulation Program (CRSP), authored testing standards for flexible fence rock-fall barriers, and has published numerous technical papers on engineering geology. Presently, he is part of a TRB task force preparing a book on rockfall science. He has given numerous invited presentations and workshops in the U.S. and Europe on many engineering geology topics.

An active member of the Association of Engineering Geologists since 1975, Dr. Higgins has served as chair of the Rocky Mountain Section, chair of the Academic and Student Affairs Committee, and has planned numerous technical symposia at national meetings. He is a member of the TRB Engineering Geology and Rockfall committees. He served five years as the geological engineering representative to the ABET, Inc. Engineering Accreditation Commission, and presently serves on the ABET Board of Directors. He is also active on the SME Education and Curricular Issues committee and serves as a trainer for geological engineering accreditation evaluators.

<b>Chair Column</b>
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Charles Nestle

Hello Southern California Section!

I really tried to keep this column short this month, and it still ended up being a page and half longer than I expected. There's a lot going on from the end of February and into March: three planning meetings for the 2007 National AEG Meeting at Universal City, the BGG's Professional Geologist Candidate Handbook Workshop, and CCGO's Annual Legislative Drive-In. I'll be participating in all of the above events, and will report on them during the March Section meeting (except the participants are not allowed to discuss details of the Handbook workshop).

Meanwhile, here are a few updates. Bring questions for more detailed discussion at the meeting.

### **Board for Geologists and Geophysicists Update**

During the February 17, 2006 Board meeting Board member William Black (GP), was elected Vice-President, replacing Dr. Robert Matthews (CEG) who has retired. Dr. Matthews was the sole CEG on the Board. He has served the Board well for the many years he has been a member, and we wish him good health.

### **California-Specific Exam update**

No action was taken by the Board during their meeting in response to the discussion presented by Joe Cota and myself at the January 20 BGG meeting. In fact, that issue was just glossed over in passing until I asked if the Board would respond to the letter. Craig Copelan, Board Chair, stated that staff would prepare a response.

One of the primary arguments by many for eliminating the CSE was that having a state-specific exam was anti-business by limiting competition. This argument, and several others, does not appear to be consistent with the mission of the Board, nor with that of the Department of Consumer Affairs:

*"The mission of the California Board for Geologists and Geophysicists is to continually enhance the quality, significance and availability of geological and geophysical services to the people of the State of California."*

The mission of the Department of Consumer Affairs is:

*"To protect and serve consumers while ensuring a competent and fair marketplace."*

Another of the arguments is that the test is hard to pass. The Los Angeles Times reported on February 21 that the passing rate of the California State Bar Exam (yes, a state-specific exam) ranks at number 50 at 44%. That's right, *last* of all 50 states. The Board for Professional Engineers and Land Surveyors has *three* state-specific exams: seismic, survey, and the Professional Land Surveyors exam. Vince Marchand, Consultant to the JCBCCP (see below) estimates that more than half of all the California Boards have state-specific exams (he's working on an exact count). *Do the arguments for eliminating the CSE not apply to all the other Board's state-specific exams? Why the full-court press to eliminate ours?*

### Legislative Update

Friday, February 24 was the last day to introduce legislation for the 2006 session. Legislation to eliminate the requirement for candidates for licensure as a Professional Geologist to pass a California-Specific Exam would have to be introduced by that date if the CSE is to be eliminated. We should have further information on that topic by the March Section meeting.

Vince Marchand has replaced David Link as the consultant to the Joint Committee on Boards, Commissions and Consumer Protection - JCBCCP (formerly Joint Legislative Sunset Review Committee – JLSRC). I will be meeting with him and other key legislators as part of a coalition of CCGO member organizations on March 7. Unless the Governor chooses *not* to pursue sunseting, the sunset process starts all over again this coming fall with a new committee Chair (Senator Figueroa will be termed-out), and possibly new committee members as well.

### New (old) Newsletters on the web site, part two!

Last month I mentioned that back issues of the Section newsletter donated by Jerry Treiman would be placed on the web site incrementally. Well the Section's Web Master Kerry Cato has done an outstanding job of putting them all up at once, and in an easy to search matrix! This collection provides a wealth of information of your Section's past activities, dinner meeting speakers, officers, field trips, etc., and showcases each newsletter editor's personal style. Check it out.

### Other Announcements

**The Roy J. Shlemon Specialty Conference** is being held May 3-5, 2006 in Durango, Colorado at the Historic Strater Hotel. The conference subject is "Mass Wasting in Disturbed Watersheds" chaired by Bill Haneberg, Sue Cannon, Paul Santi, and Jeff Coe.

To receive more information and to register for the conference, go the web site: [www.haneberg.com/watersheds](http://www.haneberg.com/watersheds) or got AEG's web site, [www.aegweb.org](http://www.aegweb.org) and click on the Mass Wasting logo.

Joe Cota is attempting to put together a **coastal landslide field trip** for this spring (!?). If you have suggestions for field trip stops along coastal Los Angeles and Orange Counties, send them to Joe at [joe@radiusmaps.net](mailto:joe@radiusmaps.net). Every time I mention this to Field Trip Chair, Kim Bishop he laughs, and keeps on laughing. So let's all help Kim stop laughing and send in those suggestions. And while you're at it, ask Joe how you can help with the organization. Let's make this happen.

**BOARD FOR GEOLOGISTS AND GEOPHYSICISTS**

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FAX: (916) 263-2099

E-mail: [geology@dca.ca.gov](mailto:geology@dca.ca.gov)Website: [www.geology.ca.gov](http://www.geology.ca.gov)**TECHNICAL ADVISORY COMMITTEE  
VACANCIES**

There will be three positions available on the Board's Technical Advisory Committee (TAC) on July 1, 2006. The Board would like to select the qualified individuals in time for them to attend TAC meetings this Spring to ensure a seamless transition of TAC functions and assignments between Committee Members.

Therefore, the Board is asking for interested individuals to submit their resumes/CVs to the Board's office at the address above no later than May 4, 2006. If appointed to the TAC, an individual is expected to donate 6 to 8 days per year to attend committee meetings plus additional time for projects. Committee appointments are unpaid except for expenses.

The minimum qualifications for a licensee member for the TAC are:

Ten years of professional experience in his or her field  
Current California licensure as a Professional Geologist or Professional Geophysicist  
No pending or prior disciplinary action

If you are interested in volunteering, please submit your resume to the Board by May 4, 2006. If you have applied previously for Committee positions, please drop us a note or an e-mail indicating your continued interest in serving the Board.

**Conference Theme:**

**Landslides and Society: Integrated Science, Engineering, Management, and Mitigation**

The conference is designed to provide a stimulating forum for geoscientists, engineers, planners, economists, program managers, and other decision makers concerned with landslide hazards and their impact on North American society.

The conference addresses the entire range of technical and social-economic policy issues surrounding assessment and management of all types of slope instability.

**Conference Proceedings**

The Geo-Institute of ASCE will publish the Conference proceedings. ASCE standards for publication will be followed – a minimum of two independent reviews of each submission. Two Geotechnical Special Publications – a book of about 800 pages and a CD-ROM – will together contain all the presentations made at the Conference.

**Web-Site**

This web site contains the most up-to-date postings on the conference program, abstract and paper submissions, registration, and accommodations.

This conference web-site URL is:

<http://www.mines.edu/academic/geology/landslidevail2007/>

**Abstract Submission**

Abstracts for the First North American Landslide Conference are to be submitted electronically by March 15, 2006 using the procedures defined at the website listed above. **Upon submission, the principal (corresponding) author will receive an e-mail providing an ID and password allowing authors to revise or update the abstract.**

**All Abstracts will be reviewed.** Once your abstract has been accepted, you will be sent a second email containing instructions for paper preparation and its electronic submission. You will be able to track the progress of your paper through the peer review process.

To allow as wide participation as possible, multiple submissions by a single principal (first) author are actively discouraged. However, they may be co-authors on several papers. The principal authors of accepted papers will be required to register for the conference at the time of submission of the final paper for publication.

**ANNOUNCEMENT No. 2:**

**CALL FOR ABSTRACTS**

Abstracts Due March 15, 2006 – Instructions on Rear



**Vail, Colorado • June 2007**

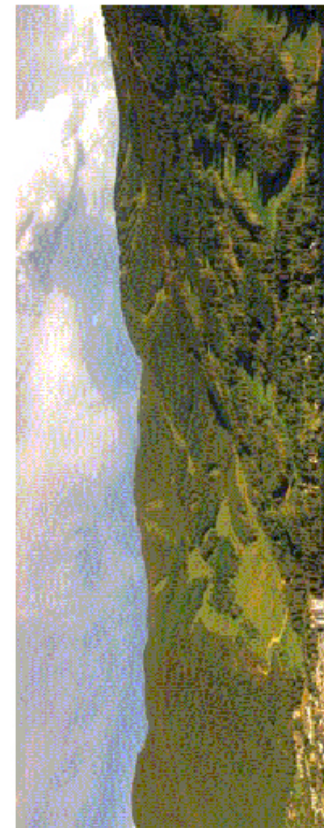
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TRANSPORTATION RESEARCH BOARD OF THE NATIONAL ACADEMIES



**Technical Program**

The Conference will hold four days of technical sessions on Monday and Tuesday, June 4-5, 2007, and on Thursday and Friday, June 7-8, 2007. Wednesday, June 6, 2007, will be devoted to 1-day **Technical Excursions** that are included within the registration fees – for details visit the Conference Web-site.

The technical program is designed to address the **Conference Themes**, which include **13 Principal Topics** – all these are defined on the Conference Web-site.

The Technical Program will consist of plenary sessions in the mornings and multiple parallel technical sessions in the afternoons. The morning sessions will contain Keynote and Invited Addresses, supplemented in some cases by debates or panel discussions. The afternoon technical sessions will accommodate 125-150 presentations. Additional presentations will be accommodated as posters – these will be reviewed and debated during morning and afternoon breaks and luncheons.

**Social Program**

A full social program is planned to encourage informal discussions. Accompanying persons are invited to participate. In addition to daily lunches and morning and afternoon breaks, there are three major events:

- **Welcome Reception** on Sunday evening,
- **Chuck Wagon Dinner (cowboy western style) and Social Event at the Eagle River Ranch near Vail** on Tuesday evening, and
- **Gala Dinner** on Thursday evening.

**International Advisory Committee**

An "International Advisory Committee" is guiding the Conference planning. Peter Bobrowsky of the Geological Survey of Canada is the chairman. Members representing interests in landslides studies from the United States, Canada, Mexico, Central America, and the Caribbean assist him. The entire committee membership is listed on the Conference Web-site.

**Organizing Committee**

An Organizing Committee under the direction of **General Chair** A. Keith Turner <kturner@mines.edu>, assisted by **Vice Chair** Robert L. Schuster; and **Conference Manager** Julie C. Keaton, is developing the Conference. The entire committee membership is listed on the Conference Web-site.

**Conference Venue**

Vail, located in a spectacular valley in the heart of the Rocky Mountains in central Colorado, is about 130 miles west of Denver International Airport. A free bus system within the community provides a pedestrian-friendly environment. With a sunny climate and a mountain setting, Vail is an excellent conference location.

**Conference Hotel**

The Vail Marriott Mountain Resort & Spa, completely renovated in December 2002, has excellent accommodations and facilities. It is located in the heart of Vail at the base of Vail Mountain. The hotel has agreed to provide accommodations for Conference participants at special rates. Reservation instructions will be presented at this site in November 2006 – well in advance of the Conference



**Key Dates**

May 15, 2005	First Announcement
January 15, 2006	Second Announcement
March 15, 2006	Close of Abstract Submission (electronic submission required)
April 15, 2006	Latest Notice of Abstract Acceptance
September 1, 2006	Draft Papers Submission (electronic submission required)
November 15, 2006	Paper Review to Authors
January 1, 2007	Submission of Final Papers & Presenter Registration

Charles Nestle

**Engineering Geology Division Members**

Three conference announcements for your information:

- 1) Mass Wasting in Disturbed Watersheds, a Shlemon Specialty Conference in Engineering Geology, 3-5 May 2006, Durango, Colorado.
- 2) First North American Landslide Conference, "Landslides and Society: Integrated Science, Engineering, Management, and Mitigation," 3-8 June 2007, Vail, CO. Abstract deadline 15 March 2006.
- 3) Coastal Sediments 2007 Conference: Coastal Engineering & Science in Cascading Spatial and Temporal Scales, ASCE, 13-17 May 2007, New Orleans, Louisiana. Abstract deadline 16 May 2006.

Details of each conference follow:

- 1) Mass Wasting in Disturbed Watersheds, a Shlemon Specialty Conference in Engineering Geology, 3-5 May 2006, Durango, Colorado.

Sponsored by the Association of Environmental and Engineering Geologists and the AEG Foundation in recognition of a generous contribution from Dr. Roy Shlemon, these conferences provide a forum for engineering geologists, geotechnical engineers, and related professionals to advance the state of their science through congenial and highly focused technical meetings.

The objective is to bring together practitioners and researchers to define the current state of practice and identify unresolved problems with regard to the prediction and mitigation of mass wasting in disturbed watersheds. Disturbances of all kinds will be emphasized, allowing participants who normally work in different fields to share and compare their experiences with the effects of watershed disturbance. We anticipate a slate of presentations covering wildfires, logging, mining, urban development, volcanism, and other agents of disturbance on watershed scale slope stability and sediment production.

The conference will be limited to approximately 50 participants in order to create a casual atmosphere and encourage informal conversations.

#### Technical Sessions

Two full days of technical sessions are planned. Each session will include two invited keynote speakers who will provide an overview of the current state-of-the-practice, unresolved issues, and future directions. The keynote speakers will be followed by brief oral abstracts and informal poster presentations contributed by conference participants.

The success of small specialty conferences such as this one depends on volunteered presentations! All participants are strongly encouraged to contribute to the program by volunteering a poster presentation.

The four technical session topics will be:

Post-wildfire mass wasting; Logging and mass wasting; Mining, urbanization, volcanism, and other disturbances; Emerging technologies and tools (e.g., LiDAR, GIS applications, watershed modeling)

#### Field Excursion

A one-day field excursion will include local examples of slope instability related to wildfire and other disturbances

For more information, and to register and submit an abstract, go to: <http://haneberg.com/watersheds/>.

#### 2) Call for Abstracts -

First North American Landslide Conference, June 3-8, 2007 in Vail, Colorado. The Conference theme is "Landslides and Society: Integrated Science, Engineering, Management, and Mitigation."

The Conference is designed to provide a stimulating forum for geoscientists, engineers, planners, economists, program managers, and other decision makers concerned with landslide hazards and their



impact on North American society. Principal professional society sponsors of the Conference include the Association of Environmental and Engineering Geologists (AEG), the American Society of Civil Engineers (ASCE), the American Rock Mechanics Association (ARMA), the Canadian Geotechnical Society (CGS) and the Engineering Geology Division of the Geological Society of America.

Abstracts may now be submitted electronically at the conference website:  
<http://www.mines.edu/academic/geology/landslidevail2007/>

Abstract deadline: March 15, 2006. Earlier submissions are encouraged.

The website contains details of the conference themes and topics to guide those preparing abstracts.

### 3) Call for Abstracts -

Sixth International Symposium on Coastal Engineering and Science of Coastal Sediment Process, Coastal Sediments 2007 Conference: Coastal Engineering & Science in Cascading Spatial and Temporal Scales. American Society of Civil Engineers. 13-17 May 2007, New Orleans, Louisiana.

International forum for exchange of information and ideas among coastal engineers, geologists, marine scientists, shallow-water oceanographers and others interested in physical process of coastal sediment transport and morphology change.

Abstract deadline: 16 May 2006.

Conference website: <http://www.asce.org/conferences/cs07/index.cfm>



**100th Anniversary Earthquake Conference**  
**MANAGING RISK IN EARTHQUAKE COUNTRY**

*The anniversary of the 1906 Earthquake is a valuable opportunity for earth scientists, engineers, policy makers, emergency responders and businesses to take stock of how well we are protecting our communities and mitigating the dangers associated with earthquakes. Please join us for the premier disaster mitigation conference in 2006.*

**April 18 - 22, 2006**  
**San Francisco, California**  
**Moscone Center**

The conference is co-convened by:

**DRC** Disaster Resistant California **ERI** **SSA**

**www.1906eqconf.org**

## Chapter Meetings

### **Inland Empire:**

March Meeting: Wednesday, March 2<sup>nd</sup> (Joint Meeting with IGS & SME)

Time: 5:00 to 8:45

Location: Marie Callendar Restaurant, Ontario

Speaker: Dr. Jason Saleeby, Professor of Geology, California Institute of Technology

Presentation Topic: "Evolution of the Deep Crust and Upper Mantle Beneath the Southern California Region"

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:**

March Meeting: Tuesday, March 21<sup>st</sup> (Joint Meeting with ASCE Geotechnical Group)

Time: 5:30 pm

Location: TBA

Speaker: Dr. Timothy Stark, University of Illinois, Urbana

Presentation Topic: "Impact of Cut and Fill Operations on Hillside Development"

For the latest information visit <http://www.aegsc.org/chapters/extremesocal/>

**National Business Donation**

- **Platinum** - \$1,000
- **Gold** - \$500
- **Silver** - \$250

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**SoCal website posting only**

**\$20/month**

\* The deadline for submitting an advertisement for next month's newsletter is Friday, March 24<sup>th</sup>.

**YEAR 2006 CONTRIBUTORS NEEDED**

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.

**EMPLOYMENT OPPORTUNITIES & ADVERTISING**



Petra Geotechnical is currently seeking experienced geotechnical engineers, geologists, environmental scientists and soils technicians in our Costa Mesa, Santa Clarita, Murrieta and San Diego offices. We offer competitive salaries and excellent benefits. Please contact Linda Becker, Human Resources Manager, at 714/549-8921 or submit your resume by email to [lbecker@petra-inc.com](mailto:lbecker@petra-inc.com)



**Eberhart / United Consultants**, a southern California geotechnical consulting firm serving its clients for over 25 years, has the following career opportunities:

**PROJECT GEOLOGIST:** position requires BS with 3 years experience in public/civil works, commercial and residential projects. Duties include field mapping, subsurface exploration, office analysis, proposal and report preparation, and project management.

**SENIOR ENGINEERING GEOLOGIST:** position requires CEG registration and 8 years experience in public/civil works, commercial and residential projects. Duties include managing/performing geologic investigations, field mapping, subsurface exploration, office analysis, proposal and report preparation, and project management.

We offer a competitive compensation & benefits package for qualified candidates. For immediate consideration, mail, FAX, or email your resume & salary history to:

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 Placentia, CA 92870  
 FAX (714) 632-0955  
[dre@euc-inc.com](mailto:dre@euc-inc.com)



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Mammoth Lakes, CA 93546  
(760) 934-3992; Fax (760) 934-8832

**Positions Available for Project Level Geologists**

**SubSurface Designs, Inc.**, an established Los Angeles geotechnical engineering firm, is seeking Project Level Geologists. The right qualified, independent and hard-working individual will be offered an excellent salary, profit sharing and benefit package commensurate with their experience. Equal Opportunity Employer.

For consideration, fax or email your resume in confidence to:

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818-898-1595 (office)  
818-898-4003 (facsimile)  
mark@subsurfacedesigns.com



**Lawson & Associates  
Geotechnical Consulting, Inc.**

Lawson & Associates Geotechnical Consulting, Inc.

2045 Royal Avenue, Ste. 125  
Simi Valley, CA 93065  
Tele: (805) 579-3434 Fax: (805) 579-3435  
Email: [kesmond@lqcgeo.com](mailto:kesmond@lqcgeo.com)

Website: [www.lqcgeo.com](http://www.lqcgeo.com)

LGC is looking for dynamic individuals to join our team and work on some of Orange, Los Angeles, Ventura, San Bernardino, Santa Barbara and Kern Counties' most interesting and technically challenging projects. If you are an experienced geotechnical professional, or just starting your career, please do not hesitate to contact us. All inquiries will be considered in the utmost confidence. We look forward to hearing from you.



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).



**GEOTECHNICAL ■ 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 Coming Place, Suite 101  
Murrieta, California 92562  
(951) 304-2300 Tel  
(951) 304-2392 Fax

**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:  
[WWW.GEOCONINC.COM](http://WWW.GEOCONINC.COM)

*Success Built on Service*





“Our Goal is in Our Name”

## 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 .



2950 Oleta Lane, Highland, CA 92346  
Telephone: 909-425-9998 Fax: 909-421-9070 Email: [bestdril@aol.com](mailto:bestdril@aol.com)  
Contractor License No. C-57, 826672





### **Environmental Geologist/Project Manager**

GeoDesign Inc, headquartered in Portland, is seeking an Environmental Geologist for our Anaheim, CA, office. This position will involve scoping of projects and budgets, performing and managing/oversight of environmental field investigations, staff recruiting/development, and mentoring; business development; and managing and oversight of project work. Position includes full benefits with salary depending upon experience.

#### **Position Requirements:**

- Minimum 8 years relevant experience
- Bachelors degree in Geology or Geological/Earth Sciences
- CA Professional Geologist license
- Excellent writing and verbal communication
- Knowledge of local, state, and federal environmental regulations
- Understanding of restrictions imposed by budget, schedule, and contract stipulations

#### **Duties/Responsibilities**

- Prepare proposals and cost estimates
- Manage field portions of project tasks, including groundwater monitoring and sampling, Phase I and II site investigations, remedial investigations, and remedial action programs
- Familiarity with environmental drilling and sampling techniques
- Analysis and execution of various field operations, including groundwater monitoring, drilling, soil-gas sampling, well installation, and aquifer testing
- RWQCB and DTSC projects
- Brownfield investigations
- Interpretation of field data to produce cross-sections, contaminant plume contours, and potentiometric surface maps
- Prepare draft and final reports
- Attend client and regulatory meetings with senior staff and principals and conduct presentations
- Attend professional meetings as company representative and perform limited marketing functions
- Mentoring junior staff and technicians

### **Geological Staff**

GeoDesign Inc., headquartered in Portland, is seeking a full-time employee for our Anaheim, CA, office to assist the Associate Geologist. Position includes full benefits with salary depending upon experience.

#### **Position Requirements:**

- BS in Geology or related field with MS or graduate work preferred
- 0-5 yrs experience
- Excellent verbal/writing skills
- Experience with geologic-seismic hazard evaluations, proposal, and technical reports a plus

#### **Duties/Responsibilities:**

- Assist with geologic mapping, exploration, well installation, grading/construction inspection, and laboratory testing.

Please send resumes for this position to: [hrdept-ca@geodesigninc.com](mailto:hrdept-ca@geodesigninc.com) or fax (714) 634-3711. For additional information please see [www.geodesigninc.com](http://www.geodesigninc.com).

AEG Southern California Section  
J. Relyea  
Earth Resources, Inc.  
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Santa Clarita, CA 91351