



## ASSOCIATION OF ENGINEERING GEOLOGISTS

### Southern California Section

*"Serving Professionals in Engineering, Environmental,  
and Groundwater Geology Since 1957"*

### *NEWSLETTER – March 2005*

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**Meeting Date:** \*\*\*\*\***Tuesday, March 15, 2005**\*\*\*\*\*  
**Location:** Steven's Steak House, 5332 Stevens Place, Commerce, CA  
**Time:** Social Hour: 6:00 PM; Dinner: 7:00 PM; Presentations: 7:45 PM  
**Reservations:** Call (949) 253-5924 ext. 564, or email Brian Villalobos, by **Noon, Monday, March 14**  
**Cost:** \$30 per person with reservations, \$35 at the door; \$15 for students with valid student ID.  
**Presenter:** Gary Luce & Dave Bieber  
**Topic:** **Reconstruction of the Historic Virginia and Truckee Railroad, Lyon, Storey, and Carson Counties, Nevada**

#### **Abstract:**

Application was made in 1993 by Carson City to the Federal Highway Administration, resulting in the granting of \$2.2 million of Intermodal Surface Transportation Efficiency Act (ISTEA) funding. Under the terms of the grant, these funds are administered by the Nevada Department of Transportation (NDOT) through an inter-local agreement with the Tri-County Railroad Commission (now the Northern Nevada Commission for the Reconstruction of the Virginia and Truckee Railroad, which includes five counties). The funds were specifically intended for an

environmental assessment of the entire route (now complete) and the design and construction of the first 1.4 miles of the project.

The first 1.4-mile portion includes significant engineering geological and engineering obstacles including the crossing of an abandoned mine pit, excavation and encapsulation of acid generating mine waste rocks, stabilization of the rail bed by an abandoned mine shaft, and the installation of a monitoring system to detect earth failure for an area where a mine shaft has been buried by

mine wastes. At this time the final plans for the 1.4 mile segment have been submitted to NDOT and will go to bid this year. Other accomplishments on the remainder of the project include:

1. The donation of four miles of track from the Reno "Retrack Project"
2. The donation of a mainline bridge for the crossing of US Highway 50
3. The granting of much of approximately eight miles of right of way from the Bureau of Land Management.
4. The issuance of five million in bonds for the project by Carson City

Momentum for the project is now at a point that the final design for the remainder of the project is underway with completion of the project estimated as 2008. Remaining engineering tasks include taking the 50% plan set for the remaining project to the 100% level. The primary tasks to reach that level will include completing:

1. environmental permits SWPPP,
2. project hydrology
3. geotechnical engineering including the evaluation of a collapsed tunnel,
4. final hydrology  
constructability analysis

**Speaker Biographical Information:**

**David W. Bieber, RG, RGP, CEG, CHG**  
(National AEG President)

David Bieber is the Geological Services Manager for Geocon Consultants, Inc. in Rancho Cordova, California and a member of the Sacramento Section. David is a California Registered Geologist, Registered Geophysicist, Certified Engineering Geologist, and Certified Hydrogeologist, as well as a Wyoming Registered Professional Geologist. His current areas of professional practice include naturally occurring asbestos, abandoned mine land assessment, and the provision of integrated geological support for active construction projects.

Dave could almost claim to have been doing geoscience from childhood, since his dad is a geological engineer and geophysicist who was taking him along to job sites from the time Dave was five years old. Dave started working as a geoscience technician for his dad's company as a teenager, and over the years, he has worked in oil and gas exploration, searched for underwater treasure, constructed antennas for talking to submarines, and practiced engineering geology doing Geohazards, environmental geology, and hydrogeology.

David received a Bachelor of Science degree in Pathobiology with a minor in Natural Resource Conservation from the University of Connecticut, finished his undergraduate geology studies at the Colorado School of Mines, and received a Master of Science Degree in Geology from the University of Colorado.

His other interests include raising Morgan horses, hunting, writing poetry, and competitive shooting. Dave is also a professional outdoor writer and has a book due out this fall on Africa and African hunting.

**Chair Column**  
(by Matthew Hawley)

Hello Southern California Section!!  
It's been a busy month since our last Newsletter -

**Governmental Affairs**

I'm pleased to inform you (if you haven't already heard) that **Governor Arnold Schwarzenegger** dropped his plan to eliminate or consolidate 88 boards and commissions, including the Board for Geologists and Geophysicists, the State Mining and Geology Board and the Seismic Safety Commission. The CPR and his GRP1 that affected our profession are officially dropped. However, we believe that future changes may be proposed and we should be ready for that time.

Thank you to all who personally devoted their time and effort into our recent cause through letter writing and visiting with our Sacramento legislators. **Joe Cota** (Past Section Chair and Current Legislative Chair), **Charles Nestle** (Current Vice Chair of AEG and CCGO), **Eldon Gath** (Past Section Chair, Past AEG President), **Buzz Spellman** (Past Section Chair, Past AEG President), **Hugh Robertson** (Legislative Member), **Tania Gonzalez** (Immediate Past Section Chair), **Judy Wolen** (our Sacramento lobbyist), **Bob Tepel** (Past AEG President and Past AEG SAC Section Chair), **Marcia Kiese** (AEG SAC Legislative Chair), and **Betsy Matheison** and **Jane Gill** of CCGO, plus any others I may have inadvertently forgotten.

**Rain, Rain, Rain**

The intense rainfall has produced an astounding number of landslides in our southern California area, not to mention damage to roads, residences, culverts, levees, etc. Providing professional assessment and opinion to those affected is keeping many of us busy which is without a doubt a good thing, but all the damages have been raising the question of: how exactly does AEG serve the public?

The AEG Mission statement states: "[The Association of Engineering Geologists \(AEG\) contributes to its members' professional success and the public welfare by providing leadership, advocacy, and applied research in environmental and engineering geology.](#)"

So how do we contribute to the public welfare? Responding to this question seems to be falling a bit flat on us.

Apparently, there have been several media outlets looking for comments from professional geologists during this storm season. Wouldn't it be ideal if AEG was poised to respond to these queries; in fact wouldn't it be great if we super ceded them with our own people and media flyers generated for the public welfare and public use?

To respond to this and possibly future geological hazards, I propose that our Section have one to three "Public Commentators" who can address the media well in response to natural hazards. A person stationed in the San Diego region, Orange County/LA region and a third in the Ventura/Santa Barbara region, or one person for the whole area, could provide information quickly and efficiently to the media, bringing much needed attention to our profession and organization. In addition, a series of informational hand-outs in which we have "canned" responses to earthquakes, the various landslides,

etc., could also prove valuable to help provide ease of mind to a wary public and awareness to our local legislators.

I believe such a system would be an asset to the “public welfare” and would be viewed as community involvement/ community out-reach. Would this not be good for us? In my opinion, the level I propose is very minimal and very doable. Let me know what you think - [www.mhawley@lqcgeo.com](mailto:www.mhawley@lqcgeo.com).

## CCGO

The time is coming for us to decide if we should remain a part of the California Council of Geoscience Organizations (CCGO). Many within our fold are dissatisfied with the level of service, i.e., lack of communication CCGO provides its' member organizations (especially us), and that CCGO is not as effective as they claim nor do they represent the interests of the various geoscience organizations as there are likely conflicts of interest. Further, there is serious debate over our Sacramento lobbyist, Judy Wolen, whom we pay her salary, but who is used by CCGO on an at-will basis – exposing the raw spots here.

On the table is our involvement with CCGO and perhaps, the viability of CCGO itself. CCGO is made up of just a few members who correspond over large distances. There are rarely any face-to-face meetings, preferring to correspond through e-mail and phone. Most of the current issues known to them are usually posted on their web site, [www.ccggo.org](http://www.ccggo.org).

CCGO is basically the mind-child of **Bob Tepel**, (former AEG President and member of AEGSAC) and several other AEG members and GeoScience organizations. In particular, Bob's leadership helped formulate and shape the concept of an organization that will take the lead on all legislative matters, particularly those of California, with lesser emphasis on National issues. This concept was generally hailed as a grand idea, as recruiting and maintaining a solid legislative core proves difficult for most geoscience organizations.

As an example, recently (2/2/05), CCGO held their 6<sup>th</sup> Annual Drive-In in which the Executive Council, Board Members or participating members and individuals march on Sacramento to profess the attributes of the geological sciences and press proposed bills to State Senators and Assembly members. I attended the recent Drive-In and was generally pleased by the enthusiasm of CCGO as they placed the importance of the geosciences in the minds of our legislators. However, not all thoughts were clearly expressed during the meetings, and positions were sometimes muddled and not clearly thought-out.

At our November meeting of last year, it was decided by the attending group that we would allow 6 months to pass, and then re-evaluate the need for our participation in CCGO. Now, the time has come. At our April meeting (not this one, but the next) I will press for a vote by the participating members on whether AEGSoCal should be a part of CCGO. If you are able, please reserve this time to attend this meeting, profess your opinion and vote on the future.

## Publications

**Joe Cota** found all our old publications. The publications will be catalogued and reviewed by the Officers to determine which should be re-printed for publication. We will let you know what items have been chosen and become available for purchase. **Dave Seymour** is taking on this task and we'll let you know when it is completed.

### Seminar

Again, I'm still hoping to put together a short course/seminar for our members. This is another great way to produce some income for our section. If you or someone you know has experience with either organizing or at least professing a topic please let me know.

### Field Trip

We have a field trip planned for April 16<sup>th</sup>. Please see the write-up by **Kim Bishop** in this month's Newsletter for details.

As always, please stay active with **YOUR** organization, and **pay your dues**.

**Cheers – Matthew Hawley**

### **A Summary of the February 17, 2005 DCA Meeting** provided by Vice-Chair Charles Nestle

On February 17, 2005, Governor Schwarzenegger retracted his proposed "Governor's Reorganization Plan 1" stating that he has "concluded that this proposal will benefit from further review." Three days prior to that announcement, on February 14, CCGO and AEG representatives met with Department of Consumer Affairs Director, Charlene Zettel, two Deputy Directors, Nancy Hall and Kirsten Tripke, and Assistant Deputy Director Laura Zuniga at the DCA offices in Sacramento. Participating representatives included: CCGO President, Jason Preece (AEG Sacramento), CCGO Vice President, Charles Nestle (AEG SoCal), CCGO Treasurer, Anne Cavazos (AWG), Bob Tepel (AEG San Francisco), Tim Parker (GRA of California), Eric Chase (AEG Sacramento), Judy Wolen (AEG Lobbyist), and via teleconference, Joe Cota (AEG SoCal), and Jane Gill-Shaler (CCGO Executive Director).

We had anticipated a presentation by the DCA on the Sunset Review Committee's recommendations for the BGG, but instead Charlene Zettel opened the meeting by asking what questions the participants had. After a brief pause, Jason opened with a discussion of the concerns CCGO had regarding the CPR, GRP1, and the JLSRC recommendations (not available until April). Jason hit on all of the main points we had, and Joe commented on one item and raised questions of his own. Participation continued sequentially around the table, and all managed to have input into the discussion. Eric Chase commented from his perspective as an SME (subject matter expert) on the geology registration exams.

Charlene discussed the Anaheim Hills landslide, La Conchita, etc. and stated that she understands absolutely the need for geology registration, thorough examinations, tough enforcement, etc. I feel confident that she is sincere in her determination to ensure the continuation of licensure and the functions of the Board. However, she is adamant about having direct control over the executive officer positions of all boards under the jurisdiction of the DCA (this must be the "increased accountability" the GRP1 speaks of – increased accountability to the executive branch). She stated that one or two boards have executive directors that are "weak" and ineffective. She wants the ability

to deal with that type of situation immediately, rather than wait the few years for the sunset review process to take hold. So in effect, all the boards are suffering as a result of a few rogues. That being

said, Charlene had nothing but compliments for Paul Sweeney, referring to him as our “wonderful” executive director. She stated that she plans to retain him on the Board.

Which leads to the crux of the problem: no written details have been provided. Indeed, she stated that the details have not yet even been “fleshed out.” Until the details are preliminarily codified we won’t know what the effect of the reorganization would be, and many details remain problematic. If the board’s executive director (and the DCA Director for that matter) serves at the pleasure of the Governor, what happens following a change of administration? When asked if the Bagley-Keene Act required the functions of the GRP1 to be held in an open manner, or in the “sunshine” as Bob Tepel puts it. The response was that advisory committee meetings, and the meetings held around the State would be open. When I pursued that line by asking about the decision-making meetings, where issues are decided and voting occurs, the response was dodgy.

In fact the same occurred upon questioning about the authority of the “advisory committees” (are decisions they make binding?) and who would be appointed to them (and by what process?). Are the advisory committees technical in nature? When asked about the possibility of our license fees being appropriated at some time in the future, Charlene stated that all board’s license fees would be placed in discrete “special funds” for each individual board as they are today (not in a collective pot), and that they can never be appropriated. Upon further questioning from Anne Cavazos and myself, Deputy Director Kirsten Tripke said that an act of legislation is required to appropriate those funds. I stated that the voters have approved several bond issues over the years earmarking funds for road construction and maintenance and that these monies have recently been appropriated for other uses. So how valid are these guarantees?

Charlene Zettel appears to respect our board, our profession, and the need for strict examination and enforcement requirements, but she still wants direct control of the executive officer. The other issues discussed remain inadequately explained and unresolved, however Charlene and her staff acknowledge this fact and state that they will include us in further discussions as codification language is developed. This is important, because the rescission of the GRP1 does not mean the threat is gone, but merely postponed.

### **Legislative Update**

by

**Joe Cota, Legislative Committee Chair**

**Earth Resources, Inc.**

[jacota@earthlink.net](mailto:jacota@earthlink.net)

The best news to report this month is that Governor Schwarzenegger has dropped the portion of his reorganization plan for California’s state government that would have eliminated the Board for Geologists and Geophysicists (BGG) along with 88 other boards and commissions. His announcement came several days following a February 14, 2005 conference with his appointed Director of Consumer Affairs, Charlene Zettel, and representatives of CCGO and AEG. We would like to believe that our conference with representatives of the Department of Consumer Affairs (DCA) had much to do with the Governor’s decision to drop parts of his reorganization plan.

As some of you know, BGG is not entirely “out of the woods” yet because this year is a “Sunset

Review” year for the board. BGG made it’s presentation to the Sunset Review Committee to extend it’s operations and funding on January 6, 2005. In the past, boards surviving sunset review were granted an average of 4 years until the next statutory sunset period, at which time they would again be reviewed by the Senate Committee to evaluate their usefulness in protecting consumers and disciplining licensees failing to work within the standards of care within their professions. It appears that the sunset review went well this time for BGG because the senate committee introduced SB 228 on February 15, 2005 to extend BGG’s operations beyond the previous sunset date. The extension period is not yet specified in the bill. A summary of the bill is as follows:

FEBRUARY 15, 2005

An act to amend Section 7810 of the Business and Professions Code, relating to geologists and geophysicists.

#### LEGISLATIVE COUNSEL'S DIGEST

SB 228, as introduced, Figueroa. Board for Geologists and Geophysicists: sunset date.

Existing law, the Geologist and Geophysicist Act, provides for the regulation of geologists and geophysicists by the Board for Geologists and Geophysicists, in the Department of Consumer Affairs. Under existing law, the provisions creating the board will become inoperative on July 1, 2006, and will be repealed as of January 1, 2007.

This bill would extend to unspecified dates the dates on which these provisions are inoperative and repealed.

AEG is in support of this bill and will continue to monitor it’s progress as it progresses through the various committees.

Apparently some Boards of Registration for several of the other professions have not fared as well as BGG and are proposed to be eliminated by AB 1024 (introduced by Assembly Member Walters on February 22, 2005). If this bill passes, licensing for some of the professions would transfer to the Department of Consumer Affairs (DCA), and this would include the Board for Professional Engineers and Land Surveyors, the California Architects Board, and the Contractor’s State License Board. A summary of Walter’s bill is as follows:

#### LEGISLATIVE COUNSEL'S DIGEST

AB 1024, as introduced, Walters. Professional vocations: abolition of boards and committees.

Existing law, within the Department of Consumer Affairs, creates various boards with appointed members, which are charged with the licensing and regulation of certain professions and vocations, including the Speech-Language Pathology and Audiology Board, the Hearing Aid Dispensers Advisory Committee, the California Architects Board, the Landscape Architects Technical Committee, the Board for Professional Engineers and Land Surveyors, the Contractors' State License Board, and the Board of Barbering and Cosmetology. Existing law creates the Hearing Aid Dispensers Advisory Committee, which advises the Hearing Aid Dispensers Bureau of the department on related matters. Existing law, with respect to various other professions and vocations, provides for licensing and regulation of those professions and vocations directly by the Department of Consumer Affairs and staff appointed by the Director of Consumer Affairs.

This bill would abolish all of the above-referenced boards and the committee, and transfer their responsibilities and duties to the Department of Consumer Affairs.

So far this year, AEG's lobbyist Judy Wolen has identified 61 bills that may have some importance for AEG from over 2800 new bills already introduced in the legislature this year. Your legislative committee has not finished reviewing these bills. If you would like to assist in the review of these bills I can email a list and summary to interested persons. We would also like to hear from our members about any concerns or comments on other bills they are aware of that were not caught by our lobbyist's screening process. All proposed legislature can be found at the following link: <http://www.leginfo.ca.gov/bilinfo.html>

In other news, AEG attended BGG's February 11, 2005 board meeting in Sacramento. Due to limited space, I'll summarize only some of the issues discussed at the board meeting that I think might be of interest to most of our membership. The agenda for this meeting is posted on BGG's website. Please feel free to email any questions about items I do not cover here.

For those who have not yet heard, licensed geologists in California are no longer called "Registered Geologists" as of January 1, 2005 we are now "Professional Geologists". Your proposals and reports, Professional Geologist Seal (rubber stamp) and business cards need to be updated immediately to reflect the name change. This change was originally proposed by BGG's TAC committee some time ago. During the recent BGG meeting some members of the TAC were unaware that BGG had already approved the name change and there was still considerable ongoing debate amongst them against changing the name. Regardless of how you may feel about the name change, licensed geologists in California are now Professional Geologists. The titles Certified Engineering Geologist (CEG) and Certified Hydrogeologist (CHG) are still valid and are not affected by this change. Registered Geophysicists (RGP) did not have their license renamed.

The requirements for the appearance and content for the new seals are posted at the following link: [http://www.geology.ca.gov/laws\\_regs/sect3008.pdf](http://www.geology.ca.gov/laws_regs/sect3008.pdf)

BGG is considering elimination of the of the California-specific examination (CSE) at the request of BGG's Executive Director, Paul Sweeney. The CSE is a one-hour state-specific supplemental examination in addition to the ASBOG exam administered to geologists wishing to become Professional Geologists in California. Sweeney argues that the CSE's low passing rate (30% last year) is a an unfair and unnecessary barrier to geologists working toward becoming Professional Geologists in the state. Many AEG members believe that California has some geologic conditions and a few unique laws that a geologist needs to know such as being familiar with maps that trigger special investigations (AP Zone Earthquake Fault Zone Maps and Seismic Hazards Zone Maps) and the state's Probabilistic Seismic hazards Zone map (shaking map for 10% exceedence in 50 years). Sweeney argues that knowing this information is "trivia" that can be learned after the geologist is licensed (and writing proposals for consumers) and those geologists not using these maps or not familiar with other relevant state-specific laws for conducting investigations will eventually be caught through BGG's enforcement activities or the local agencies reviewing reports. This matter will be discussed at the next BGG meeting in May, 2005 and AEG would like to know *your* opinion on the CSE.



**AEG FIELD TRIP**

The AEG Southern California Section 2005 Field Trip is scheduled for Saturday, April 16, 7:30-5:30. The emphasis of the trip will be the La Conchita Landslide which reactivated this winter damaging or destroying some 36 homes and took 10 lives. Dr. Ed Keller of UCSB and grad student Larry Gurrola currently working in the region will lead this part of the trip. The trip will begin at the Park and Ride parking area just east of the Antelope Valley Freeway at the Golden Valley Road exit in Santa Clarita. We'll have some coffee & doughnuts while they last and busses will leave the parking area at 8:00 AM sharp. We will generally follow along the Santa Clarita River Valley to PCH making some interesting stops along the way, including at least one *environmental* stop to observe some "new-school" post construction BMPs (best management practices) used to reduce pollution in storm water runoff. Engineering geology, drinks and good times will fill in the gaps. The trip includes lunch at the top of La Conchita where the expansive Pacific views have changed little since Portola advanced his exploring party through this same area in August of 1769. On August 16<sup>th</sup> Portola's party camped near a native fishing village near Rincon Point where "during the night , these people serenaded us with pipes or whistles; these were very disagreeable and only served to annoy us and keep us awake". Welcome to Rincon! Incidentally, the Portola party was guarded by 30 foot soldiers under the command of **Cptn. Pablo Cota**, so there just might be a little local history including exaggerated truths along our route.

Cost of the trip will be \$60/person including lunch, drinks, and road log. There is space for a limited number of students with current photo ID's at \$25/student, but call in ASAP to get this deal! For further information, please contact Kim Bishop at [kbishop@calstatela.edu](mailto:kbishop@calstatela.edu) or (323) 343-2409. Deadline for reservations is Friday, April 8, 2005. **Space is limited, so make your reservation early.**

- SIGN UP TODAY BY COMPLETING THIS FORM
- MAKE A COPY FOR YOUR RECORDS
- MAIL WITH CHECK WRITTEN TO AEG SO CAL SECTION TO:

Dr. Kim Bishop  
 Dept. of Geological Sciences  
 California State University  
 5151 State University Dr.  
 Los Angeles, CA 90032

Name: \_\_\_\_\_ Phone # \_\_\_\_\_

Email address \_\_\_\_\_ Company \_\_\_\_\_

Please watch for further announcements in the next Newsletter. We will contact you with any updates or new information.

**Section Business Donation**

- Platinum - \$500
- Gold - \$250
- Silver - \$125

Company receives a line in the section newsletter giving their name or their company name under the appropriate metallic heading.

**National Business Donation**

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

Company name, address and contact information are presented in AEG News and section receives 10% of donation. A national donation does not yield a line in our local section newsletter.

**Company & Employment Advertising**

	<u>Month</u>	<u>Year</u>
▪ Business Card	\$10	\$100
▪ ¼ Page	\$20	\$200
▪ ½ Page	\$35	\$350
▪ Full Page	\$50	\$500

\* The deadline for submitting an advertisement for next month's newsletter is Friday, March 25.

**YEAR 2005 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, Brian Villalobos.

**2005 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 THIS MONTH

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

2045 Royal Avenue, Ste. 125  
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 Email: [kesmond@lgcgeo.com](mailto:kesmond@lgcgeo.com)

1319 Calle Avanzado  
 San Clemente, CA 92673  
 Tele: (949) 369-6141 Fax: (949) 369-6142  
 Email: [info@lgcgeo.com](mailto:info@lgcgeo.com)

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

LGC is looking for dynamic individuals to join our team and work on some of southern California's 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.

**Hu Associates, Inc.** a geotechnical/environmental consulting firm in Santa Fe Springs, CA since 1979. HAI is currently seeking a Certified Engineering Geologist with strong background in hillside development, and good project management, as well as experience in Los Angeles County. Position responsibilities include soil/geologic investigation, fault investigation, collecting field data, slope stability evaluation, percolation studies and construction inspection, report writing and client communication.

The right qualified individual will be offered an excellent salary; company sponsored insurance program and bonuses. If you are interested in becoming a part of continuing growth at a well-established and evolving firm, please Fax resume to: (562) 698-5771 or Email: [huassocinc@aol.com](mailto:huassocinc@aol.com)

**Ninyo & Moore**

Ninyo & Moore Geotechnical and Environmental Sciences Consultants has immediate openings for **Staff, Senior Staff, and Project Geotechnical Engineers and Geologists** in their Irvine office. Submit resumes to: Ninyo & Moore, 475 Goddard, Suite 200, Irvine, CA 92618; Attention: Ms. Ruth Dolecki (EOE). Please visit us at our web site at [www.ninyoandmoore.com](http://www.ninyoandmoore.com).

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Certified Engineering Geologist Needed for our Los Angeles County Area.  
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Please send resume to:

Earth Systems Southern California, Attn: Mark Russell, GE  
2801 E. Foothill Blvd., Pasadena, CA 91107  
626-356-0955/ 626-356-0956 fax



Ninyo & Moore Geotechnical and Environmental Sciences Consultants has an immediate opening for a Principal Geotechnical Engineer or Principal Engineering Geologist to manage the firm's Oakland office. Candidates should be highly motivated with strong technical, organizational and leadership capabilities. Ninyo & Moore is a geotechnical and environmental sciences consulting firm with offices in San Diego, Irvine, Los Angeles, Ontario, Oakland, and San Francisco, California; Las Vegas and Carson City, Nevada; and Phoenix, Arizona. The firm provides geotechnical, environmental, and materials testing and inspection services to public and private sector clients. Please contact Margot Graves at (510) 633-5640 or [mgraves@ninyoandmoore.com](mailto:mgraves@ninyoandmoore.com) (EOE). Our web site is [www.ninyoandmoore.com](http://www.ninyoandmoore.com)

**Positions Available for Entry Level Geologists & Field Technicians**

SubSurface Designs, Inc., an established Los Angeles geotechnical engineering firm, is seeking Entry Level Geologists and Field Technician/Deputy Inspectors. Part-time and full-time positions available. 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:

SubSurface Designs, Inc.  
Attn: Mark Triebold  
12872 Foothill Blvd.  
Sylmar, CA 91342

818-898-1595 (office)  
818-898-4003 (facsimile)  
[mark@subsurfacedesigns.com](mailto:mark@subsurfacedesigns.com)

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