

# SAN DIEGO ASSOCIATION OF GEOLOGISTS

[www.sandiegoeologists.org](http://www.sandiegoeologists.org)

## SDAG MEETING ANNOUNCEMENT Wednesday, July 20, 2005

### ***BLUEBIRD CANYON LANDSLIDES: PAST, PRESENT, AND FUTURE***

*presented by*

**Woodrow L. Higdon**

Geo-Tech Imagery International

**Where:** Windmill Banquet & Catering / Holiday Inn Carlsbad-by-the-Sea  
890 Palomar Airport Road, Carlsbad CA 92008  
Located at the intersection of Interstate 5 and Palomar Airport Road  
(the old Pea Soup Anderson's)  
760-431-0364

**When:** 6:00 pm – Social Hour  
7:00 pm – Dinner  
8:00 pm – Program

**Directions:** Take I-5 to Palomar Airport Road, east and you're there!

**Dinner:** Buffet including Chef's Fresh Soup of the Day, Organic spring greens salad with dressing, Sliced deli meats, cheeses and trimmings, Fresh breads, Cookies and Brownies, Coffee and Tea.

**Cost:** \$25.00 per member/guests, \$10 per student. Add \$5.00 if you make no reservation.

**Reservations:** Make your reservation online at [www.sandiegoeologists.org](http://www.sandiegoeologists.org) or call the SDAG Reservation Hotline at (619) 255-8380, **no later than 9:00 a.m. Monday, July 18<sup>th</sup>**.

**RESERVATIONS CANNOT BE ACCEPTED AFTER Monday AT 9 AM.**

### **2005 EXECUTIVE COMMITTEE**

**PRESIDENT** - Margaret R. Eggers; *Eggers Environmental, Inc.*; Ph: (760) 757-7711; [megggers@egggersenv.com](mailto:megggers@egggersenv.com)

**VICE PRESIDENT** - Phil Farquharson; *CG-Squared Productions* Ph:(619)224-8463 fax:(619)255-8380 [geoguy@cg-squared.com](mailto:geoguy@cg-squared.com)

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**TREASURER** - Sarah Gray; *University of San Diego*, Ph: (619) 260-4098; fax: (619)260-6874; [sgray@sandiego.edu](mailto:sgray@sandiego.edu)

**PUBLICATIONS** - Lowell Lindsay; *Sunbelt Publications*; Ph:(619)258-4911 x111; fax:(619)258-4916; [llindsay@sunbeltpub.com](mailto:llindsay@sunbeltpub.com)

**WEBMASTER** - Carolyn Glockhoff; *Caro-Lion Enterprises*, Ph: (858) 549-3396; [carolyn@caro-lion.com](mailto:carolyn@caro-lion.com)

## BIOGRAPHICAL SKETCH: WOODROW L. HIGDON

**Woody Higdon** is a geologist and geotechnical photographer who founded his company, Geo-Tech Imagery Intl. in 1979. He worked as a staff geologist in Southern California between 1975 and 1979 on a variety of landslide projects including the October 2, 1978, Bluebird Canyon landslide, where he did extensive investigation and documentation photography.

Woody enlisted in the United States Marine Corp in 1961 where he was trained in mapping and aerial photography, diving, underwater photography, and underwater demolition with Marine Recon. After being honorable discharged from the Marine Corps he became a police officer for the cities of Santa Ana and Garden Grove, California, and subsequently went to Cypress College and California State University where he graduated with degrees in marine geology and geology. Post-graduate work included Remote Sensing Imagery courses from Harvard University in 1981.

Woody's long-time interest in photography and geology developed into a successful technical and professional photography business to aid in the investigation and documentation of geologic projects such as land use, landslides, earthquakes, floods and fires, and commercial photography for developers for marketing, planning, mass grading, and construction applications. He also has done underwater investigations for geologic hazards for offshore pipelines.

GTI 760/754-8423

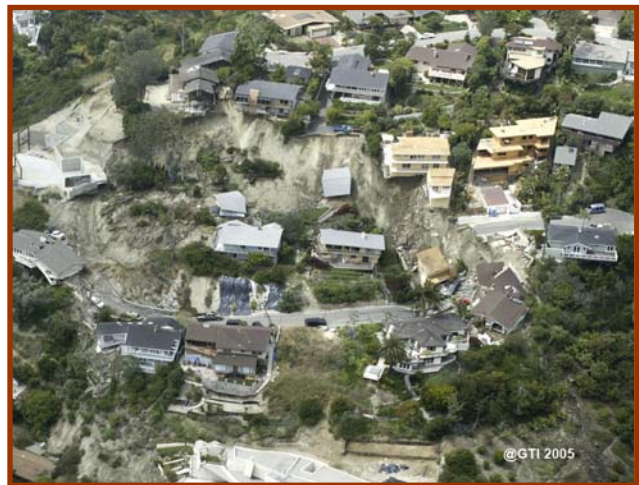
fax 760/754-8722

[www.geo-tech-imagery.com](http://www.geo-tech-imagery.com)

### SUMMARY:

#### BLUEBIRD CANYON LANDSLIDES: PAST, PRESENT, AND FUTURE

On October 2, 1978, a large landslide devastated the Bluebird Canyon area of Laguna Beach. This slide was a reactivated ancient landslide that put Laguna Beach, California, on the national map in 1978 and became known as the "15 Million Dollar Slide." As a staff geologist working for Leighton & Associates I was one of several geologists assigned to investigate the failure. During the period between 1978 and 2005 Laguna Beach has had a series of damaging reactivated ancient landslides that have more in common than just being landslides. The area northeast and adjacent to Bluebird I would become Bluebird II on June 1, 2005. This latest slide has garnered national media attention and is also a reactivated ancient landslide which was originally mapped during the 1978 investigation. There are also Bluebird III & IV landslides! As a Geotechnical Photographer in the late 1970s, I started a program of documentation and investigation imagery on this area that continues to this day. This talk will be a first look at the Bluebird Canyon Landslide II and a pictorial review of the landslides of Laguna Beach—past and present—with a look toward the future.



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### ANNOUNCEMENTS:

#### 2005 SDAG MEETING SCHEDULE - Mark your Calendars!

We'll fill out the schedule as we get speaker confirmations and finalize meeting places. Meetings are usually on the 3<sup>rd</sup> Wednesday of the month but may change to accommodate speaker and meeting place schedules. Check here for updates!

August 17	TBD
September 21	<b>Wes Danskin</b> , USGS, Drilling program and latest results from San Diego area
October 22-23	Annual Field Trip – Southern Anza Borrego Desert State Park
November	TBD
December 21(?)	Annual Holiday Meeting at San Diego Natural History Museum!

## ANNOUNCEMENTS (CONTINUED):

**SDAG Booth** volunteers needed at the opening celebration of the 70th Street Trolley Station. Join the 'free ride' on July 9<sup>th</sup> from 10-3, when the 4 new stations will be free and having many festivities.

***Exit 70th St. from I-8 in La Mesa. South and east of the exit.***

*Please volunteer to host the booth all or part of the time. Contact David Bloom 619-571-3470 or email: [secretary@sandiegogeologists.org](mailto:secretary@sandiegogeologists.org)*

Over 40 art elements are at the 70th St. Trolley station. Artist Nina Karavasiles created: the "Train-like Apparatus Sculpture," which you will have to find, plant-related art, quotes that set a stage, a light installation, an ironic map display, even the recycled glass in the pavement are there to contemplate while waiting for a trolley.

[http://www.sdcommute.com/Green\\_Line/70thStreetLaMesaStation.asp](http://www.sdcommute.com/Green_Line/70thStreetLaMesaStation.asp)

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### 2005 Inland Geological Society Meetings

**July 7, Thursday** - Alexander Schreiner, Jr., R.G., Senior Geologist, Earth Systems Southwest, Indio, CA:

'Overview of Geothermal Resources around the Salton Sea, Riverside and Imperial Counties, and the Geology of the Obsidian Butte rhyolite flow, Salton Sea Geothermal field, California'

**August 3, Wednesday** - TBA

**September 1, Thursday** - Dr. Norman Meeks, Professor of Geography, Department of Geography, California State University, San Bernardino, CA: 'Developing Issues in the Inland Empire'

**October 5, Wednesday** - Jason Preece, Sr. Engineering Geologist, ENGEO Inc., San Ramon, CA, President, California Council of Geoscience Organizations (CCGO): 'Update on California Professional Practice issues and the Professional Geologist in California: Insight on the type and quantity of professional work Geologists do'

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South Coast Geological Society Field Trip Guidebook 2004 (Catalina Island) will be available at our next meeting for \$45. See Bill Elliott.

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FYI, a very important document on the State Water Resources Control Board/CalEPA website that addresses what is acceptable/unacceptable with regard to professional licenses:

[http://www.waterboards.ca.gov/cwphome/ustcf/docs/currentnews/ispr\\_finalmay2005ver2.pdf](http://www.waterboards.ca.gov/cwphome/ustcf/docs/currentnews/ispr_finalmay2005ver2.pdf)

This is the request for volunteers for the focus group that will be evaluating the California-specific examination. [http://www.geology.ca.gov/hot\\_topics/volunteer.pdf](http://www.geology.ca.gov/hot_topics/volunteer.pdf)

Please help me in distributing these proposed regulations to the masses! The Public Hearing on them is July 15, 2005. <http://www.geology.ca.gov/legalnotices.htm>

Here is the website link to the October 22, 2004 letter from DCA's Legal Office on the issue of Slope Stability and Factors of Safety. [http://www.geology.ca.gov/hot\\_topics/slope\\_stability.pdf](http://www.geology.ca.gov/hot_topics/slope_stability.pdf)

Here is the e-version of the Geology Board's Summer 2005 Newsletter:

[http://www.geology.ca.gov/publications/summer\\_2005.pdf](http://www.geology.ca.gov/publications/summer_2005.pdf)

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**Jeffrey E. Patterson** passed his Ph.D. Defense Examination on the 27th of June in Calgary! He has now opened a small geophysical consulting firm specializing in the use of GPR. He can be reached at [jeffreyp3@cox.net](mailto:jeffreyp3@cox.net) or 1(619) 464-4935. The name of his firm is **Geophysical Exploration and Mining**.

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On June 7, Diana Lindsay led a small group of hardy desert rats in four 4WDs to part of Anza-Borrego's "Journey Through Time" from Canyon Sin Nombre, Diablo Dropoff, Sandstone Canyon, to the Mud Caves of Arroyo Tapiado. Thanks to George for geological background and insights. Shown are Daniel Wnukowski, David Bloom, Mark Borun, Diana, George Morgan, and Phil Farquaharson. Sean McGoey took the photo.



## ANNOUNCEMENTS (CONTINUED):

For the *Borrego Sun* – 331 words  
June 15, 2005  
Diana Lindsay  
[dlindsay@sunbeltpub.com](mailto:dlindsay@sunbeltpub.com)  
619-258-4905 x 104

### **EARTHQUAKE RATTLES REGION—225 YEARS AGO**

By Diana Lindsay

A recent headline in the San Diego Union, regarding the 5.2 magnitude Anza earthquake on Sunday, June 12, read, “earthquake rattles region; no one injured.” That would have been the same headline had there been a newspaper when the Anza Expedition crossed that area in 1775.

The epicenter for the Anza earthquake was 6 miles ESE of Anza, near Table Mountain and the historic San Carlos Pass of the Anza Expedition. The quake occurred along the San Jacinto fault zone, one of the most active faults in Southern California. This area of the San Jacinto fault zone is known as the “Anza gap,” where future magnitude 6+ events are expected but have been surprisingly few.

The last major earthquake in the area was a 6.0 magnitude in 1937 at Terwilliger Valley. According to Thomas Rockwell, a SDSU geologist who has studied the San Jacinto fault zone extensively, this area is long overdue for a major 7+ magnitude earthquake. The last 7+ magnitude earthquake in this area occurred in 1750.

The earthquake reported by the Anza Expedition in 1775 probably did not approach these magnitudes. Captain Juan Bautista de Anza, the head of the expedition bringing over 300 colonists to California, wrote in his diary that the earthquake occurred well after 4:30 p.m. on December 26 and “lasted four minutes.” A four minute earthquake would have been a major earthquake, but the second diary description makes that highly unlikely.

Father Pedro Font gave more detailed information in his diary entry. He wrote, “It must have been about five in the afternoon when we felt a tremor of very short duration that appeared to be an earthquake, accompanied by a short, sharp rumbling. After a short time it was repeated very indistinctly.”

Rockwell believes that Font’s description suggests that it was not a major earthquake but rather a small to moderate earthquake, perhaps similar to the one on June 12. Rockwell said that Font “seems to describe the P-wave, followed shortly by the S-wave.”

The Anza Expedition earthquake was not the first historic earthquake to be reported in California. That honor falls on Junípero Serra’s expedition to establish the first missions in Southern California. Diarists report that an earthquake occurred on the Santa Ana River in the Los Angeles Basin on July 28, 1769. It has been estimated that this quake was a magnitude 6.

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I read your article in the *Borrego Sun* re: 6/12 earthquake.

On Sat, 6/11, I led a group on a tour of the Cary Ranch. While we were standing in front of the Anza historical landmark plaque on the property, I read passages from Anza and Font’s diaries describing the earthquake they felt.

I stayed the night at the ranch as we (La Puerta Foundation) had our Board meeting the next day, 6/12. During the morning of 6/12, I was sitting by myself having breakfast on the large, mortero-filled boulder in front of the lower pictograph cave when I heard the earthquake, then quite sometime later, felt it. It was bizarre swaying to the right as I saw the house-size boulders down below swaying to the left, etc. I became nauseous---I guess I got a little seasick.

It was definitely a sizeable shake, being 2-3 miles from the epicenter of the 5.2 quake. I thought about the entries in the diaries and, during the shaking, I looked over at the grove of trees where the Anza party had likely been near, based on the description in the diaries. Very weird, wonderful, and scary all at once. About half of the group from the tour had camped on the other side of the Cary Ranch hills and told me later they heard the earthquake coming down the canyon before they felt the shaking. They said that experiencing the quake as the Anza party did, so close to hearing about it, really left an impression on them.

I’m glad you got your article published. Such a contemporary tie-in with the interesting Anza expedition story is a great way to pass on this history to today’s folks.

Take care,  
Reena Deutsch  
June 30, 2005

*- Provided by Diana Lindsey*

## **ANNOUNCEMENTS (CONTINUED):**

### ***Elimination of the California Board for Geology and Geophysicists***

CCGO Alert

June 15, 2005

This is a preliminary alert with more information to follow in the very near future. Monday, June 13, 2005, Tim Parker (GRA), CCGO President-Elect Charles Nestle (AEG SoCal), and Lobbyist Judy Wolen attended a meeting at the State Consumer Services Agency. The Schwarzenegger Administration has renewed its effort to eliminate and consolidate boards, as previously outlined in the California Performance Review, this time by picking on the 7 or 8 boards that are currently under sunset review. The Board for Geologists and Geophysicists is one such board.

The concerns that the Administration voiced about the BG&G included:

- 1) Functionality - Small Boards such as BG&G with only 7,000 members, are typically stretched thin with the limited resources they have, are burdened with the potential loss of institutional knowledge when unplanned and abrupt change in leadership occurs, and are challenged with even meeting staff vacation obligations. Additionally, the smaller boards typically do not have resources sufficient to adequately train new staff, and put in place and regularly update policies and procedures to allow the organization to function consistently and seamlessly over time.
- 2) Focus - some boards seem to focus more on the profession and professional issues then on consumer protection.
- 3) Efficiency - with such a small staff, the smaller boards cannot operate as efficiently as a larger combined board where different structural components such as answering the telephone and filing/routing information would be utilized and funded by a larger resource base.

The Administration's proposal is to merge the BG&G with the Board for Professional Engineers and Land Surveyors (over 100,000 members). They say this is not to "eliminate" the BG&G but "merge" the two Boards together, and to completely restructure the combined board. CCGO will be receiving a narrative description of what the merged-combined Geologists and Engineers Board would look like and will pass this along.

An alternative the Administration would be willing to consider is that the BG&G become a Bureau under the Department of Consumer Affairs (DCA). This would address some of the Administration's concerns about functionality and efficiencies.

The Agency has said they intend to move this along quickly, and to wrap it up into legislation to be incorporated in this session (ends mid-September 2005). They have asked the CCGO to give them feedback on their proposal quickly, and they have said they are not willing to consider a delay of one year to allow the geologist organizations to fully consider the pros and cons of the different proposals.

Over the next day or so, CCGO will be developing more information for member organizations to consider in order to evaluate the options and approach and to take on this latest effort by the Schwarzenegger Administration to reduce/consolidate/eliminate boards. Some of our options include:

- 1) Oppose and fully fight any effort to change the current BG&G, and push SB228 the current BG&G sunset review bill through this session.
- 2) Parallel track, push for a delay to make any decision regarding the Administration BG&G proposals.
- 3) Support or oppose moving to a Bureau under Department of Consumer Affairs.
- 4) Support or oppose merging the BG&G with BPELS.

Our initial (obvious) conclusion is to oppose any merging of the BG&G with BPELS or moving to the DCA. In addition, the issue of functionality may not be well supported as it seems the BGG is functioning very adequately. More soon from CCGO. This serves as a heads up that we will need a strong and decisive letter writing campaign to help address this latest Schwarzenegger Administration attack on the BG&G.

Following the meeting, Charles and Judy met with Bill Gage (Tim had to leave to attend another meeting). Bill said he thinks Senator Figueroa will meet with the Secretary of the Agency, Fred Aguiar and express her displeasure with the process the Administration is doing that is contrary to the Sunset Review Process. Bill thinks they will continue with the sunset bills as written which means we will have to do a strong support in the Assembly Business and Professions Committee on SB 228. The problem will be that the Governor will probably veto those bills and then the board sunsets and will end up a Bureau. A grassroots campaign is absolutely important along with editorials. What to write and to whom will follow as soon as we have that information. More information about Fred Aguiar and the State Consumer services Agency can be found at: <http://www.scsa.ca.gov/>.

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**Jane Gill-Shaler, PG (NC&CA) CCGO Executive Director**

*CCGO-An Advocate for the Profession in the Public Interest - Since 1997*

Cell 336-687-6144 --- landline 336-883-0170 --- 336-883-4919 fax

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## ANNOUNCEMENTS (CONTINUED):

Thank you **SDAG Corporate Sponsor Sherry Bloom, Coldwell Banker Real Estate** for use of printer and copy machine to produce this newsletter!

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**DO YOU HAVE AN ANNOUNCEMENT??** Do you have an event, job opening, field trip or other announcement you would like to share with our members?? Just call or email our SDAG Secretary, **David Bloom** at 619-571-3470 OR [secretary@sandiegogeologists.org](mailto:secretary@sandiegogeologists.org).

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**SDAG Wear:** - Monte (Murbach) has a variety of shirts, hats, visors and even a nice vest with the SDAG logo. A small selection is available for purchase at the meetings; all SDAG wear can be ordered from Monte.

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## **JOB OPENINGS!**

**Hargis + Associates, Inc.**, a San Diego based consulting firm specializing in hydrogeology and engineering, currently has opportunities in our San Diego, California office. We are presently looking to fill the following positions:

**Staff Engineer:** Candidate would have a B.S. Degree in Chemical, Civil, or Mechanical Engineering, EIT Certification and/or a Masters Degree is a plus. Only entry level candidates will be considered. Candidate should possess strong writing and presentation skills. Position will be based in San Diego, California, and will require some travel and field work. OSHA 40-hour training preferred, but not mandatory.

**Staff Hydrogeologist:** Candidate would have a B.S. Degree in Geology, and 2 to 4 years relevant experience, including experience with soils and groundwater sampling, well installation, work plan and report preparation. Candidate should possess strong organizational, writing, and field investigation and sampling skills. Ability to obtain Professional Geologist (PG) registration within two years or a Masters degree is a plus. Position will be based in San Diego, and will require travel and field work. OSHA 40-hour training required.

**Project Hydrogeologist:** Candidate would have a B.S. Degree in Geology, and 5 to 7 years relevant experience, including experience with sampling, well installation, work plan and report preparation, project management, cost estimating and scheduling. California Professional Geologist (PG), or ability to obtain within one year preferred. Masters degree or computer groundwater modeling experience is a plus. Candidate should possess strong organizational, writing and presentation skills. Position will be based in San Diego, and will require some travel and field work. OSHA 40-hour training required.

Hargis + Associates offer competitive salaries and benefits, and a challenging work atmosphere. Hargis + Associates in an Equal Opportunity Employer. To learn more about Hargis + Associates, please visit our website at: [www.hargis.com](http://www.hargis.com).

No phone calls please. Qualified candidates should send resumes, along with a cover letter summarizing experience and salary requirements to:

Hargis + Associates, Inc.  
Attention: Phil Rosenberg  
2365 Northside Drive, Suite C-100  
San Diego, CA 92108

**Southwest Geophysics, Inc.** seeks a part-time, and eventually full time, staff/entry level geophysicist that has, or is working on, a degree in geology or geophysics. Candidate should have some understanding of the basic geophysical methods (i.e., magnetics, electromagnetics, seismics, etc.). Send resume to the address below or by email to:

*Hans van de Vrugt, C.E.G., R.Gp.; Principal Geologist/Geophysicist*

*Southwest Geophysics, Inc.*

*7438 Trade Street*

*San Diego, California 92121*

[hvandevrugt@southwestgeophysics.com](mailto:hvandevrugt@southwestgeophysics.com)

**Ninyo & Moore's** San Diego Environmental Division has immediate employment opportunities for individuals with California certifications and experience performing and overseeing asbestos and lead-based paint field projects. Appropriate certifications include Certified Asbestos Consultant, Site Surveillance Technician, and Lead Inspector/Assessor/Project Monitor. Individuals with California asbestos and lead experience and certifications is preferred. Experience with Phase I and II Environmental Site Assessments is a plus, but is not required. Please forward resumes to the attention of Ms. Margot Graves, Ninyo & Moore, 5710 Ruffin Road, San Diego, California 92123 or [mgraves@ninyoandmoore.com](mailto:mgraves@ninyoandmoore.com). Ninyo & Moore is an Equal Opportunity Employer.

## JOB OPENINGS! (CONTINUED)

**Geotechnical Exploration, Inc.**, a well-established geotechnical firm founded in 1976 and serving primarily San Diego County, is seeking an engineering geologist with 5-10 years of experience to join our staff. Should be registered or working toward registration with strong writing and communication skills. We are also seeking an experienced field technician and an experienced field/lab technician. Please send resume to 7420 Trade Street, San Diego, CA 92111 or e-mail to [pjasmund@ixpres.com](mailto:pjasmund@ixpres.com).

### Environmental Direct Push (Geoprobe) Rig Operators and Assistants

Environmental Direct Push (Geoprobe) Rig operators, drillers and assistants are needed at an industry-leading environmental company in Southern California. H&P Mobile GeoChemistry has full-time and part-time positions available in San Diego.

Primary job responsibilities include collecting soil, groundwater and soil vapor samples for environmental field analysis. The job requires traveling, including some out of state locations, a flexible schedule, must work outdoors and in all weather conditions. OSHA 40 hour HAZWOPER training required (preferred but not necessary at the time of applying, training is available). The ideal candidate will have 1-2 years of Geology experience and must enjoy a fast-paced, challenging work environment.

A High School degree is the minimum requirement and salary will be based on experience.

If you are interested in Geology and/or Environmental Sciences, have a desire to work for a growing company in a technical environment and like to travel, then apply for the position immediately by submitting a resume to Blayne Hartman at: [bhartman@handpmg.com](mailto:bhartman@handpmg.com) or call Louise Adams at 800-834-9888.

**Davis Earth & Materials, Inc.**, a San Diego based geotechnical and materials testing firm, is looking for **Geotechnical Engineers and Geologists** to assist with high-rise, commercial, and public agency projects. We are a small company with remarkable growth potential for ambitious individuals anxious to help the company grow. We will consider staff to senior level candidates, 2 years to 20+ years. Registration is preferred but not required. *Please Fax or Email resume with cover letter to: Human Resources - 858-292-7570, [info@dem-inc.net](mailto:info@dem-inc.net).*

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**San Diego Association of Geologists  
c/o David M. Bloom  
3728 Mt. Almagosa Place  
San Diego, CA 92111**