

SAN DIEGO ASSOCIATION OF GEOLOGISTS

<http://www.sandiegogeologists.org>

SDAG MEETING ANNOUNCEMENT

Wednesday, May 15th, 2019 *3rd Wednesday*

Rising from the Ashes

Presented by: **Chuck Houser, CHg**

Where: The Alamo Mexican Cafe, San Diego
2543 Congress St., San Diego, CA 92110 (See Map)

When: 5:30 pm – Social Hour
6:30 pm – Dinner
7:30 pm – Presentation

Dinner: Mexican Buffet

Cost: \$30 Member, \$35 Non-Member, \$20 Students.

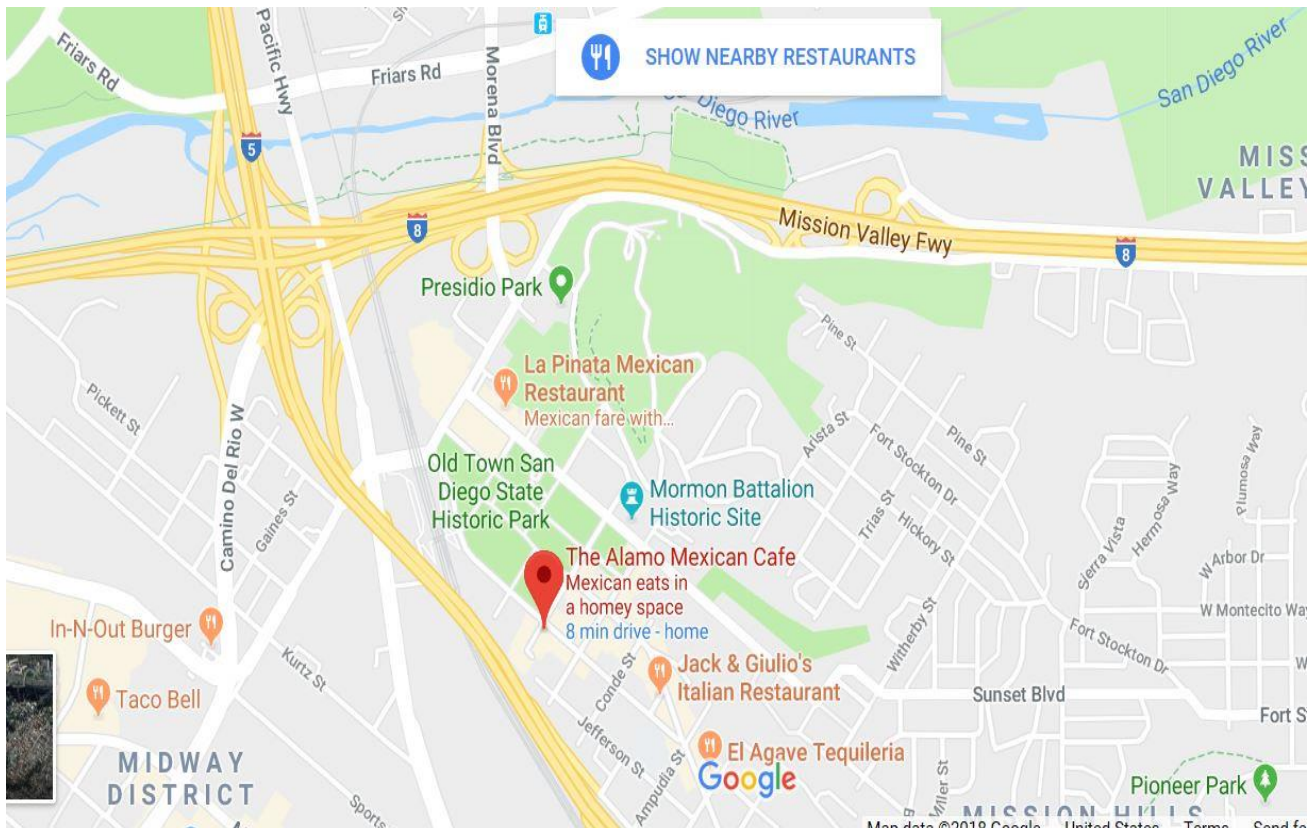
Reservations: Make your reservation **online** at <http://www.sandiegogeologists.org/Meetings.html> **no later than noon, Monday, May 13th**. Reservations cannot be guaranteed after Monday at noon, but are always preferred over walk-ins. **EARLY reservations well before the deadline are MUCH appreciated.**

Directions:

FROM INTERSTATE 5: Take the Old Town Avenue exit. Proceed east on Old Town Avenue. Turn left onto San Diego Avenue and then left at the fork onto Congress Street. The restaurant is located approximately three blocks to the north on the left (west) side of the street.

FROM INTERSTATE 15: Take Highway 163 south to Mission Valley and then take Interstate 8 west. Take the Taylor Street/Hotel Circle exit and head west on Taylor Street. Turn left (south) onto Congress Street. The restaurant is located approximately three blocks to the south on the right (west) side of the street.

Map:



ABSTRACTS

RISING FROM THE ASHES

Presented by: **Chuck Houser, CHg**

Litigation support work has some unique challenges compared to more typical assessment work conducted by environmental consultants. Several years ago, I was tasked with evaluating post-fire sedimentation in some former ponds on a north County property. This required some innovation since there is as yet no reliable test to distinguish “pre-fire soil” from “post-fire soil.” Projects like this afford the project geologist the opportunity to take a scientific approach and utilize investigation techniques that may not be justified on more typical projects. This talk presents the process of evaluating the project needs and devising an investigation technique that would hopefully meet those needs. The investigation was designed to allow observation of sediments (ash?) connected directly to the fire. That goal was not met. However, the results were somewhat surprising and turned out to be quite useful. An underlying aspect to this presentation is an evaluation of investigation techniques and the need to use techniques capable of providing useful information.

SPEAKER BIO

Chuck Houser is a geologist and project manager with SCS Engineers in San Diego. He has a Bachelor of Science degree from San Diego State University from 1986, and a Master’s degree from SDSU from 1997. His undergraduate thesis was on structural controls and mineralogical indicators for the formation of pockets in the Elizabeth R Mine in Pala, and his master’s thesis was on the tectonic geomorphology and Quaternary history of the Old Woman Springs fault in the western Mojave Desert in San Bernardino County.

His practice has included an emphasis in assessment and remediation of leaking underground storage tank sites. He has worked on numerous leaking UST sites in San Diego County, and has achieved closure of at least 20 cases over the past decade.

UPCOMING MEETINGS

Meetings are usually held on the 3rd Wednesday of the month may change to accommodate the speaker and meeting place schedules. Check the SDAG website for updates

June 26, 2019 El Adobe in San Juan Capistrano <i>*4th Wednesday*</i>	Joint Meeting with SCGS – “Recovering Our Future - The Past, Present, and Future of Coastal Wetlands”
July, 2019 TBD	TBD
August 28, 2019 <i>*4th Wednesday*</i>	Rob Hawk - TBD

2019 SDAG EXECUTIVE COMMITTEE

<u>PRESIDENT:</u>	Ken Haase; haase@geoconinc.com
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SDAG PRESIDENT'S CORNER

Hello SDAG!

What an action packed meeting for May with 4 presentations being given during our meeting. Thank you to all the speakers!

This month we have our own Chuck Houser giving his talk, 'Rising from the Ashes'. He'll give some insight into some of his experiences doing assessments as an environmental consultant. That talk will be given at The Alamo in Old Town on May 15th, get your signups in!

Our VP Adam Avakian has gotten the details for his 2019 SDAG Field Trip to Owen's Valley. Look for signup forms soon.

Also, we are looking for sponsors for our June joint meeting with SCGS on June 26th. We will be at El Adobe in San Juan Capistrano. The details are, a \$300 sponsorship gets you a dinner, a power point slide displayed during happy hour and dinner as well as a 3 minute presentation before our main speaker. A \$125 sponsorship gets you a dinner and a power point slide displayed during happy hour and dinner. These sponsorships are a great way to reduce the cost for our members, advertise for your business, and help out students!

Email me at haase@geoconinc.com if you're interested!

See you at the Alamo on May 15th!

Ken Haase
2019 SDAG President
Geocon, Inc.

ANNOUNCEMENTS

ONE-STOP WONDER CHALLENGE!

ONE OSW A MONTH IN 2019!

BE A PART OF SDAG HISTORY!

Have an idea for a one-day or half-day field trip?

Want to share your favorite aspect of San Diego
geology?

Contact SDAG to schedule your One-Stop
Wonder!

Your OSW may be chosen to be included in SDAG's One Stop
Wonder Guidebook!

Contact Monte Murbach for scheduling!

montemurbach@gmail.com



**SAN DIEGO STATE UNIVERSITY
DEPARTMENT OF GEOLOGICAL SCIENCES**

ANNUAL BANQUET – SATURDAY, MAY 4, 2019

**sponsored by the
SDSU GEOLOGY ALUMNI ASSOCIATION**

This year's banquet will be held at the "**Hilton Garden Inn San Diego Mission Valley Stadium**". The Hilton Garden Inn is located at 3805 Murphy Canyon Road in San Diego, approximately 6 miles west of SDSU (map link below). Onsite parking for the event is free.

The **SATURDAY** evening event begins with a social hour at 6pm (no-host cash bar), then dinner at 7pm. The meal will be followed by the evening's program which will include an overview of the Department by the Department Chair, Dr. Allen Gontz.

The **Baylor Brooks Honored Alumni Award** will be presented to this year's two deserving alumni, **Diane and Monte Murbach**. Monte and Diane both received their MS degrees from SDSU, after moving south from Washington. They are uber-active volunteers with various geological associations in southern California, including the alumni-founded San Diego Association of Geologists.

The dinner will NOT be buffet-style. The plated selections include boneless braised short ribs (beef), oven roasted herb marinated chicken breast (chicken), or wild mushroom ravioli (vegetarian). More details on the next page. Please indicate your selection on the reservation form.

As a fund-raiser to partially fund students' banquet meals and other SDSU Geology Alumni Association activities, there is a silent auction that will be set up at the beginning of the evening and will conclude after the evening's program. If you have any items to donate to the auction, please bring them at 6pm and/or contact Sue at s.tanges@att.net **Remember to bring cash/check for your silent auction "wins"!**

CURRENT SDSU GEO-STUDENTS - At least 50 percent of your banquet fee will be reimbursed if you make a reservation by the deadline AND show up at the banquet!!! And, remember, SDSU geo-alumni may be your future employers and are a great bunch of people!

If you have questions about the banquet, contact Sue Tanges at 619-442-8022 or s.tanges@att.net
Link to hotel location: <https://hiltongardeninn3.hilton.com/en/hotels/california/hilton-garden-inn-san-diego-mission-valley-stadium-SANSTGI/maps-directions/index.html>

2019 San Diego Association of Geologists Annual Field Trip

Owen's Valley and Eastern Sierras

Update 4-22-2019

This year's trip will take us up Highway 395 through the Owens Valley and along the Eastern Sierras. The trip will take place from September 27 to 29, 2019 (Fri, Sat, Sun). We will be camping both nights at Pleasant Valley Campground located about 8 miles ENE of Bishop. The trip will be planned as a full day Friday and Saturday and a half day Sunday. The trip will be focused on stops between Lone Pine and Convict Lake (exploring approx. 95 miles of the valley). Being in the rain shadow of the Eastern Sierras, the geologic exposures in this region are excellent and the diversity of geologic features is second to none. We will be discussing and putting our hands on fault scarps, volcanic deposits (basalt flows and rhyolite tuffs), glacial moraines and other unique evidence of the geomorphology of the Owens Valley and Eastern Sierras. You don't want to miss this trip! The Owens Valley is a California gem that all geologists must experience at least once in their lifetime. For those not interested in camping, hotel accommodations in the Bishop area are available, but are not included in the registration cost and must be reserved independently. We have 17 camp sites reserved. Each camp site is allotted 6 people and 2 vehicles (carpooling is critical here). A couple of these camp sites can accommodate an RV or trailer. The campground is located in beautiful meadow lands at the mouth of the Owens River Gorge. The river meanders through the campground with scenic views of the Eastern Sierras and the White Mountains. The local fishing is quite good and you can literally cast a line from your tent. Fishing might be catch and release only so come prepared with the right equipment if you do plan on fishing in the morning or evening. It is your own responsibility to have a fishing license and abide by the local fishing laws. I can't wait for this trip and am excited to see everyone there! I plan to finalize costs for the field trip and have reservation forms ready by our May meeting. Stay tuned!

Cheers!

Adam



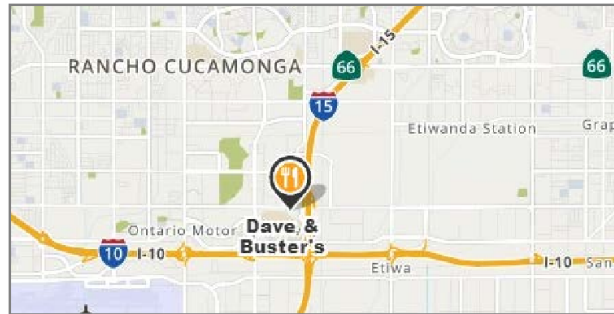
MAY MEETING – Thursday, May 9, 2019

“Ore Control in the Modern Mining Era – Are We Doing Enough?”

PRESENTED BY: Jennifer Baar, SME Henry Krumb Lecturer

TIME: 6:00 pm Social
 7:00 pm Dinner and Presentation

LOCATION: Dave & Buster’s Conference Room
 4821 Mills Circle
 Ontario, CA 91764



COST: **RSVP** - Professional \$35, Students \$10
At door - Professional \$40, Students \$20

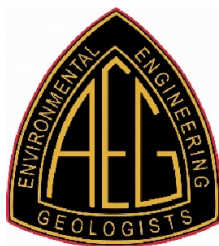
RSVP: Nicolette Grill @ ironmtn2012@gmail.com
 by Monday, May 1, 2019

ABSTRACT: Ore control is an important player in the success of a mine. Ore control geologists and/or engineers maximize the economic metal value of a mine. Without a dedicated role committed to the success and progress of an ore control program, it is unlikely a program will be able to stay current on industry-leading trends in technology and best practices. With the mining industry rapidly changing around us, it would appear ore control is being left in the dust. Many of the practices used today are decades-old and have not been revisited in many years. Ore control should be used for more than just a tool to delineate ore and waste. It should be used to assist in short-range mine design, development drilling, metallurgical and material designation, and blast-pattern design, among other purposes. How do we prevent ore control and the people who run the program from becoming obsolete in an ever-changing industry?



BIOGRAPHY: Jennifer Baar, Ore Control Geologist for Rio Tinto, received her BS in Geology from the University of Georgia. She briefly worked in the Environmental Sector until she returned to school for her MSc in Geology from Washington State University. In 2010, she began working full-time for the mining industry with an underground focus in Elko, Nevada, with Newmont Mining Corporation, and later at Barrick Gold Corporation. During her time in the gold industry, she focused primarily on Carlin Style Gold Mineralization in both the Carlin and Eureka-Cortez Trends. In 2015, she moved to an open pit geology role. Currently, she works for Rio Tinto at Bingham Canyon as an ore control geologist.

HOSTED BY: SME SoCal Section, Inland Geological Society, and Association of Environmental and Engineering Geologists



Next SME SoCal Dinner Meeting: September 12, 2019 @ 6pm

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What is AmazonSmile?

AmazonSmile is an automatic way for you to support the **“San Diego Geological Society”** (SDGS) SDAG’s 501(c)(3) as your favorite public charitable organization every time you shop on Amazon at no cost to you at smile.amazon.com.

How do I select a charitable organization to support when shopping on AmazonSmile?

On your first visit to AmazonSmile smile.amazon.com, you need to select a charitable organization to receive donations from eligible purchases before you begin shopping. Please select the **San Diego Geological Society**. Amazon will remember your selection, and then every eligible purchase you make at smile.amazon.com will result in a donation to SDGS (SDAG).

How much of my purchase does Amazon donate?

The AmazonSmile Foundation will donate 0.5% of the purchase price from your eligible AmazonSmile purchases.

How can I learn more about AmazonSmile?

Please see complete AmazonSmile [program details](#).

SDAG Research Tool

SDAG RESEARCH TOOL - A comprehensive listing of all papers published by SDAG, whether as annual field trip guidebooks or special publications, is now available on our website. Entries are sorted by primary author, or chronologically by date of publication, starting with our first guidebook in 1972, from Coast to Cactus in 2014, and finally on the Julian 'Road to Gold' in 2017. These can be accessed or downloaded as .pdf files. They are fully searchable in Adobe Reader or Acrobat, so if you are researching a topic, "oikocryst" for example, you can search for that keyword. This listing will be updated as new books are published. Thanks to Greg Peterson and Hargis + Associates, Inc., for making this possible. See the links below:

http://www.sandiegogeologists.org/SDAG_Pubs_authors.pdf

http://www.sandiegogeologists.org/SDAG_Pubs_chronological.pdf

Interactive Fault Map for San Diego - Tijuana

As part of the update for the San Diego-Tijuana Earthquake Planning Scenario, Working Group No. 1's "Fault Map Subcommittee" completed the first publicly available bi-national active and potentially active fault map (http://sandiego.eeri.org/?page_id=265). This interactive GIS map includes the first publicly available active and potentially fault map locations from the City of San Diego. The map also integrated the faults south of the border for a bi-national cross border view. This map is an on-going project as our knowledge increases about local active and potentially active faults.

You can expand the map legend on the left side to select layers that can be turned on or off for the map view. You can also select from 1 of 12 base maps at the base map icon. You can click on the fault line in your map layer view to see the meta-data source. In addition, the City of San Diego Seismic Safety Study Geologic Hazards & Faults Maps are available in the layer titled "GeoHaz SD City." Please note that the City "Zone 12 Potentially Active" fault layers was not included in this data, therefore you will need to use the City Maps to find Zone 12.

The Fault Map link is available at: http://www.sandiegogeologists.org/Faults_map.html

Please contact Diane Murbach (dianemurbach@gmail.com 619-865-4333), Chair for the SDTJ Earthquake Scenario Working Group #1 - Earth Science, if you have any questions, or see any errors on this new fault map.

I would like to thank Carolyn Glockhoff for her endless GIS work, Jim Quinn and the City for providing their data and time, Jerry Treiman with CGS for his time preparing the Surface Rupture and providing their new State fault data layer, and Luis Mendoza at CICESE for providing the faults south of the border. Please contact Diane Murbach (dianemurbach@gmail.com), Chair for the SD-TJ Earthquake Scenario Working Group #1 - Earth Science, if you have any questions, or see any errors on this new fault map.

Diane Murbach (619) 865-4333

Engineering Geologist, C.E.G.

www.murbachgeotech.com

Request for 2019 SDAG/SDGS Publication Sponsors

On behalf of the San Diego Geological Society, Inc. (SDGS), a public benefit 501(c)3 nonprofit educational corporation, we would like to request tax deductible Donations for our San Diego Association of Geologists (SDAG) group. The list of paid Sponsors and the forms to become a Sponsor are located on the SDAG web site at: <http://www.sandiegogeologists.org/Sponsors.html>.

Your donation will further the SDGS mission to promote geology and related fields in the greater San Diego region, operating through the San Diego Association of Geologists (SDAG), a committee of SDGS. To achieve our primary educational objective, we organize frequent field trips and maintain a program of monthly meetings featuring speakers on current geological topics. We also publish field trip guidebooks and other publications related to geology and natural history. We encourage scholarship and research by awarding scholarships from the elementary through graduate levels. With your \$100 "EMERALD" donation, your name/business will be listed as a sponsor on the SDAG web site (<http://www.sandiegogeologists.org/>) and in the monthly SDAG meeting newsletters. With your \$500 "RUBY" or \$1,000 or more "DIAMOND" level donation, your business card will also be included on the SDAG web site and in the monthly SDAG meeting newsletters. In addition, as a "\$1,000 or more DIAMOND" level donation you will be presented with a thank you plaque.

Should you have any questions regarding a Sponsorship, please contact our non-profit SDGS Secretary (Diane Murbach) at 619-865-4333.

Call for Articles

SDAG invites members to submit articles on their current research or an interesting project they are working on for publication in the monthly newsletter. The article should be no more than 1 page in length. Photos are welcomed; too. Please submit articles to the SDAG secretary via email.

Geo Job Listings

Project Geologist Wanted

R. T. Frankian & Associates, Inc.

R. T. Frankian & Associates, Inc., a geotechnical engineering and engineering geology consulting firm since 1963, seeks a qualified individual for Project Geologist position. This position is to work on medium to large size land development-type projects, as well as to develop work within the public sector. The successful candidate must meet the following criteria.

The Project Geologist must -

- Possess BS/BA in Geology, with classes in geologic field mapping, stratigraphy/sedimentology, and structural geology
- Have 1-3 years experience in hillside grading in L. A. County or Southern California
- Be able to perform downhole boring logging, test pit logging, field supervision, slope stability analysis
- Be able to assist CEG with various aspects of land planning and development projects, **especially** field-related aspects
- Be willing to work in various aspects of the job (field, office, and as needed inspection)
- Possess excellent written and verbal communication skills, as well as excellent interpersonal skills
- Being a PG in the State of California is preferred but not required

R. T. Frankian & Associates, Inc., offers a competitive salary, commensurate with experience and abilities, and a benefits package.

Email resumes to resumes@rtfrankian.com.

Senior Engineering Geologist Wanted

R. T. Frankian & Associates, Inc.

R. T. Frankian & Associates, Inc., a geotechnical engineering and engineering geology consulting firm since 1963, seeks a qualified individual for the Senior Engineering Geologist position. This position is to work on medium to large size land development-type projects, as well as to develop work within the public sector. The successful candidate must meet the following criteria.

The Senior Engineering Geologist must –

- Possess BS/BA in Geology, with classes in geologic field mapping, stratigraphy/sedimentology, and structural geology
- Have 3-5 years experience in hillside grading in L. A. County or Southern California
- Be able to perform downhole boring logging, test pit logging, field supervision, slope stability analysis
- Possess excellent written and verbal communication skills, as well as excellent interpersonal skills
- Be willing to work in various aspects of the job (field, office, and as needed inspection)
- Be a CEG in the State of California

R. T. Frankian & Associates, Inc., offers a competitive salary, commensurate with experience and abilities, and a benefits package.

Email resumes to resumes@rtfrankian.com.

GEI Consultants, Inc. is a leading consulting engineering and environmental firm ranked #92 in the ENR top 500 (2018), with over 800 employees in multiple offices throughout the U.S. and Canada. We serve hundreds of government, energy, industry and institutional clients, and have completed 50,000 project engagements throughout the United States, Canada, and more than 20 other countries. Our technical experts are involved in dozens of specialty services emanating from our core solutions in water, energy, buildings, infrastructure and industrial.

We are seeking a full-time **Senior Engineering Geologist** for our Carlsbad, CA office. Experience in geologic investigations for dams and other water infrastructure projects is a plus.

Essential Responsibilities & Duties

- Manage the technical, financial, and client relationship aspects of a variety of geologic/geotechnical engineering projects throughout the country, with a geographic emphasis in California.
- Prepare technical scopes of work and budgets for proposals, and prepare requests for proposals for subcontractor services.
- Plan and lead the implementation of geologic/geotechnical site assessments and subsurface investigations, which include: field mapping, aerial photograph interpretation, rock and soil borings, surface and downhole geophysics, LiDAR analysis, preparation of technical reports, and providing technical oversight of subcontractors including review/approval of invoices and work proposals.
- Participate actively in professional organizations and conferences; deliver presentations, and write technical papers.
- Generate new business.
- Prepare and deliver technical presentations to clients and regulators.
- This position has a field component; travel, and some overnight travel are required.

Minimum Qualifications

- B.S. in Geology; M.S. is a plus.
- P.G. and C.E.G. with registration in California.
- 10+ years of previous professional experience in engineering geology.
- Excellent technical report writing and communication skills.
- Willingness and ability to travel on short-term assignments as needed.
- Valid U.S. driver's license.

GEI is an EEO/AA/M/F/Vet/Disability employer

Apply here: <https://jobs.ourcareerpages.com/job/396913>

For other opportunities within GEI, go to: <https://geiconsultantsinc.ourcareerpages.com/>

Trevet is an Environmental and Engineering Consulting Firm headquartered in San Diego, CA. We are seeking a **full-time staff level Geologist or Environmental Scientist**. Two to five years of experience preferred. At a minimum a bachelor's degree in geology, engineering, or a related scientific discipline is required. Must be eligible to work in the United States, and on Department of Defense installations. Ability to travel for extended duration (2 to 3 weeks) is required. The ideal candidate will possess great attention to detail, excellent written and verbal communication skills, and ability to work independently and within a team.

Duties will include a combination of field and office related tasks.

Field experience should include:

- Installation of soil borings using multiple drilling methods
- Describing soil using the USCS and ASTM classification systems
- Installing and abandoning groundwater monitoring wells
- Field sampling of groundwater, soil, and soil gas
- Remediation system operation and sampling

Field work may be performed at project sites with environmental media (e.g., soil, sediment, groundwater, surface water, etc.) that has been impacted with hazardous substances and/or hazardous wastes.

Office experience should include:

- Field data collection, analysis, and interpretation
- Preparation of data in visual, graphical, and tabular formats
- Technical report writing

Other Requirements

Familiarity with CERCLA/RCRA requirements

OSHA 40-Hour HAZWOPER Training with current 8-hour refresher class preferred.

Trevet is an Equal Opportunity Employer

Please apply at

<http://www.trevetinc.com/>



Entry-Staff Hydrogeologist

OVERVIEW:

Hargis + Associates, Inc. (H+A) is an environmental consulting and engineering firm founded in 1979 with a commitment to providing high-quality, cost-effective services for our clients. We are headquartered in San Diego and have offices in Sacramento, CA, and Phoenix and Tucson, AZ. Our practice focuses on large facility investigation and remediation projects for Fortune 500 clients where we provide responsive, practical and innovative solutions for the treatment of soil, vapor and groundwater contamination. H+A also provides hydrogeologic and engineering services for groundwater resources assessment, stormwater management, and environmental regulatory and litigation support. H+A employs a staff of approximately 60 hydrogeologists, geologists, engineers, industrial hygienist, and project support personnel.

We are currently seeking an entry-staff level hydrogeologist to join our San Diego office supporting environmental investigation and remediation projects located throughout Southern California. These projects are primarily focused on the characterization and remediation of soil, vapors, and groundwater impacts at large industrial sites. In addition to implementing fieldwork for site investigations, the position will also involve data entry, interpretation, and technical report writing for various soil and groundwater monitoring programs.

RESPONSIBILITIES:

- Implement/and support field investigations for soil sampling, groundwater sampling, borehole drilling, and well installations.
- Complete tasks requiring utilization of critical-thinking skills, scientific, geologic, and engineering analytical techniques.
- Assist in the preparation of reports, work plans, sampling and analysis plans, remedial investigation reports, and groundwater monitoring reports under the direction and guidance of a Senior Geologist/Engineer/Scientist.
- Follow corporate health and safety and quality management plan standards.

REQUIREMENTS:

- BS degree in geology, hydrogeology or related technical discipline is required.
- 1-3 years of field experience in environmental consulting is preferred.
- Experience with geologic, engineering, scientific, or general environmental projects and data interpretation.
- Field experience with drilling, sampling (soil and groundwater), and well installations is a plus.
- OSHA 40-hr. HAZWOPER, current refresher preferred; training provided.
- General computer knowledge (Microsoft Office, Email); GIS and other environmental software experience is a plus.
- Excellent organizational and sound written/oral communication skills.
- Local candidates only; must be eligible to work in the United States.

PHYSICAL DEMANDS:

- Ability to drive, travel and/or perform field work approximately 50% of the time; some overnight and extended travel.
- Ability to lift 45 pounds.
- Must be able to perform the following actions while conducting fieldwork: stooping/kneeling/crouching, standing for long periods of time, pulling/pushing and lifting equipment and supplies, walking on uneven terrain.
- Ability to work in outdoor environments and hot/arid conditions.
- Ability and willingness to work long hours and in proximity to loud noises and hazards (i.e., proximity to moving mechanical parts, moving vehicles, and exposure to chemicals, fumes, odors, dusts, and gases).

Those who seek to apply may submit a cover letter and resume via email to hargisinfo@hargis.com

All qualified applicants will receive consideration for employment without regard to race, color, national origin, ancestry, sex, gender, gender identity, gender expression, age, sexual orientation, religious creed, physical or mental disability, medical condition, genetic information, marital status, veteran status, or any other classification protected by applicable federal, state, or local law.

MP Materials, Mountain Pass, CA

Seeking Industrial Hygienist/Radiation Safety Officer

Please contact:

Chris Baker

Senior Environmental Specialist

m: 562.331.4507

cbaker@mpmaterials.com | www.mpmaterials.com

PHOTOS OF THE MONTH

If you would like to submit a photo, email them to secretary@sandiegogeologists.org and I will try and put them in the newsletter. Provide a short description of the picture.



Photograph by: Alrosa

Topic: **The Zarya diamond**

Source: MINING.com Staff

“Alrosa's (MCX:ALRS) International mine produced this month the largest gem-quality diamond seen in the past two years.

In a press release, the world's top diamond miner by output revealed that the stone weighs 118.91 carats, displays a light yellow overblown, has salient edges, one of them with cleavage, and has small inclusions in the central zone.”

Full Article: <http://www.mining.com/alrosa-recovers-large-diamond-international-pipe/>



HARGIS+ASSOCIATES, INC
HYDROGEOLOGY • ENGINEERING

Hargis + Associates, Inc. is an environmental consulting firm specializing in hydrogeology and engineering. We are headquartered in San Diego, California and have offices in Mesa and Tucson, Arizona. Our practice areas include all aspects of hydrogeology and engineering.

As a client service organization, we pride ourselves in being attentive and efficient in meeting our client's needs and solving their problems. In addition to our technical expertise, communication and responsive coordination are hallmarks of our reputation.

We invite you to explore our website to learn more about our firm and the services we provide. We welcome the opportunity to discuss our consulting expertise directly with you.

Contact: **Dr. David R. Hargis**



Mobile Geochemistry Inc.

H&P Mobile Geochemistry is an industry-leading provider of environmental lab services. With ten mobile labs and five direct push sampling trucks and unparalleled experience, H&P's repertoire of environmental lab services includes many forms of environmental lab sampling techniques all the way to on site field analysis services. H&P has successfully and accurately performed environmental lab services delivering quality results to our clients for over 16 years.

2470 Impala Dr., Carlsbad, CA 92010
(800) 834-9888

Contact: **Louise Adams or Suzie Nawikas**



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<http://www.tetrattech.com>



Contact: **Rupert Adams, CEG**

Geocon Incorporated
6960 Flanders Drive, San Diego, CA 92121
P | 858.558.6900

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Orange County / Bakersfield / Bay Area / Fairfield / Sacramento*



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Contact: **Barry Anderson**

760-754-1337



**ENERGETIC
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8(a) / SDB Certified

EXPERIENCED

858-275-6454

Trevet is a San Diego-based environmental engineering and consulting 8(a)-certified small business enterprise.



Leighton is a multidiscipline engineering firm, providing geotechnical, environmental, and testing and inspection services. Founded in 1961, Leighton provides engineering solutions to public agencies, property owners, and facilities. With offices located in San Diego, Irvine, Los Angeles, Temecula, Rancho Cucamonga, Palm Desert, Santa Clarita, Ventura, and Bakersfield, we efficiently service any region of Southern California. Our professional staff of Registered Geotechnical Engineers, Professional Geologists and Certified Engineering Geologists, Registered Hydrogeologists, and Registered Environmental Assessors and Certified Inspectors provide decades of local experience for the successful completion of your projects.

For additional information, please contact Bob Stroh (rstroh@leightongroup.com)

Website link: <http://www.leightongroup.com>

- [Dr. Pat Abbott](#) — SDSU Professor of Geology, Emeritus
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