

SAN DIEGO ASSOCIATION OF GEOLOGISTS

<http://www.sandiegoeologists.org>

SDAG MEETING ANNOUNCEMENT

Wednesday, July 17th, 2019

Anza-Borrego's Sister Park in Mongolia

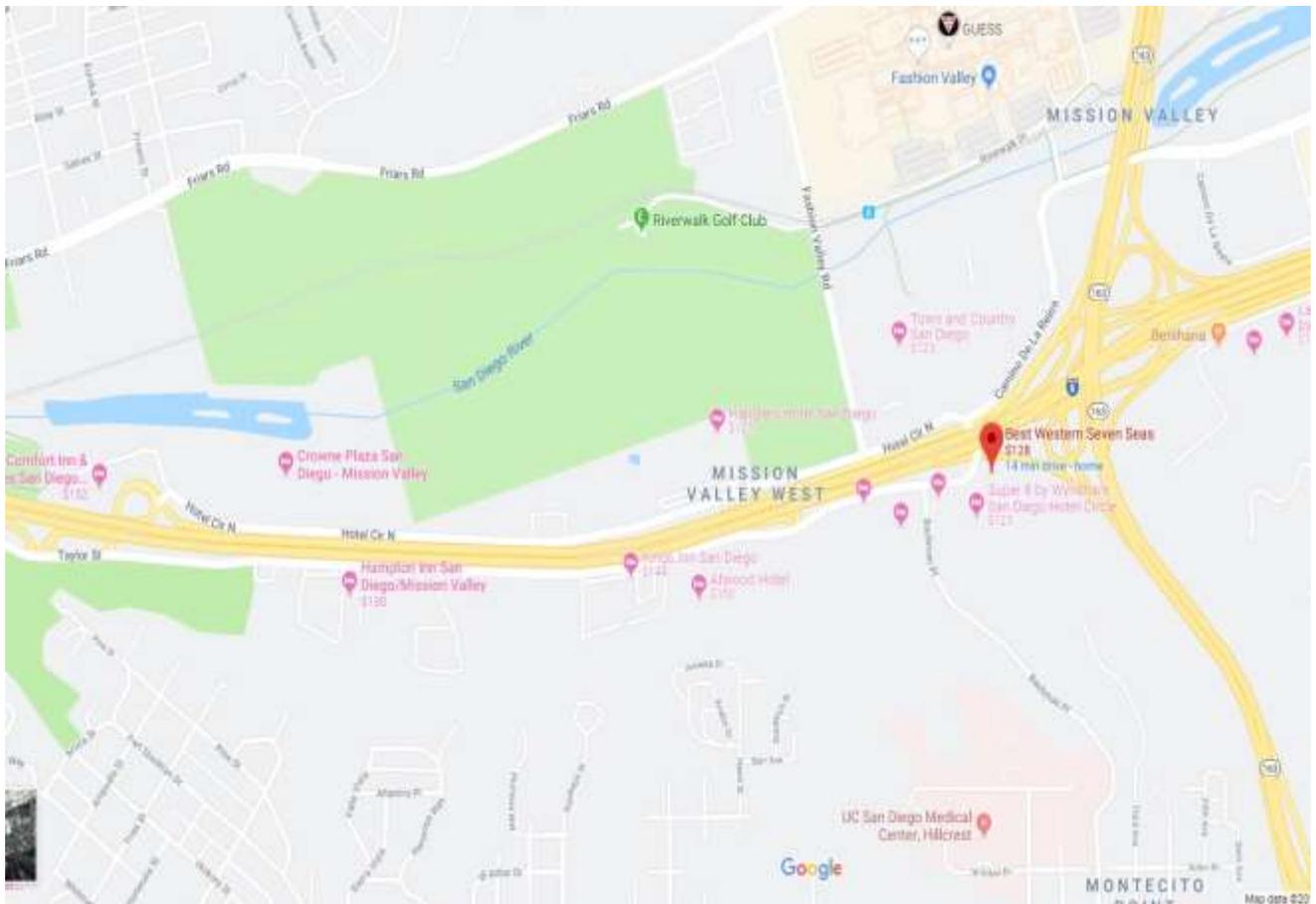
Presented by: Diana Lindsay

- Where:** **Best Western - Seven Seas**
411 Hotel Circle South
San Diego, CA 92108 (See Map)
- When:** 5:30 pm – Social Hour
6:30 pm – Dinner
7:30 pm – Presentation
- Dinner:** Pot Roast with Gravy, Chicken California, Potatoes, Mixed Greens, Fruit
- Cost:** \$30 Member, \$35 Non-Member, \$20 Students.
- Reservations:** Make your reservation **online** at <http://www.sandiegoeologists.org/Meetings.html> **no later than noon, Monday July 15, 2019**. Reservations cannot be guaranteed after Friday at noon, but are always preferred over walk-ins. **EARLY reservations well before the deadline are MUCH appreciated.**

Directions: FROM INTERSTATE 5: If you are heading south on I-5, take the I-8 east exit for 2.2 miles. Take the Hotel Circle E exit. Turn left on Hotel Circle. The Best Western Seven Seas will be on your right before you cross under the freeway.

FROM INTERSTATE 8: Take the I-8 West to exit 4B for Hotel Circle W. Turn right onto Hotel Circle N, which takes you back to the east. Slight right onto Hotel Circle S. The Best Western will be on your left just after you pass under the freeway.

Map:



ABSTRACT

Anza-Borrego Desert State Park is the only park in the California State Park system that has a sister park. The park is located in the desert-steppe region of southeastern Mongolia and is called Ikh Nart Nature Reserve. Diana Lindsay traveled to Mongolia in September 2008 with a delegation from Anza-Borrego representing the State Park and the State of California, carrying documents from the California Park & Recreation Commission and the Governor's office that officially established the sister park relationship with the Mongolian reserve. In addition to formalizing the relationship with the reserve, the delegation toured the Gobi Desert and Mongolian national parks to become better informed about setting up summer hostels to Mongolia through the Anza-Borrego Foundation, which continues to this day. Join Diana at the regular SDAG dinner meeting on Wednesday, July 17, when she will present a PowerPoint program about how this happened and why there is a connection to our own Anza-Borrego area. It will be an armchair adventure where she shares the experience of drinking fermented mare's milk, riding camels over sand dunes, hiking volcanic Vulture Gorge, chasing rare Przewalski horses, visiting the natural history museum in Ulaambaatar, and bouncing cross-country in Russian four-wheel drive vehicles.

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

August 28, 2019 *4 th Wednesday* Geocon, Inc.	Rob Hawk
September 2019	NO MEETING (Field Trip September 27- 29)
October 16, 2019	Ron Blakey "Late Mesozoic and Cenozoic Paleotectonic and Paleogeographic Evolution of Southwest North America"

2019 SDAG EXECUTIVE COMMITTEE

<u>PRESIDENT:</u>	Ken Haase; haase@geoconinc.com
<u>VICE PRESIDENT:</u>	Adam Avakian; armenianmenace1@gmail.com
<u>SECRETARY:</u>	secretary@sandiegogeologists.org
<u>TREASURER:</u>	Luke Weidman; lcweidman@gmail.com
<u>PUBLICATIONS:</u>	Lowell Lindsay; <i>Sunbelt Publications</i> ; Ph: (619) 258-4911, x111; llindsay@sunbeltpub.com

SDAG PRESIDENT'S CORNER

Greetings SDAG!

Our July meeting brings us Diana Lindsay at the Best Western Seven Seas in Mission Valley on Wednesday June 17th. Ms. Lindsay, from Sunbelt Publications, will be presenting "Anza-Borrego's Sister Park in Mongolia." You can sign up on the website!

Our 2019 Field Trip sign-up forms are attached to this announcement email. Looks to be a great trip Adam has prepared, get those sign-ups in!

See everyone on July 17th at the Best Western!

Sincerely,

Ken Haase
Geocon, Inc.
2019 SDAG President
haase@geoconinc.com

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

SDAG Field Trip 2019

OWENS VALLEY AND EASTERN SIERRAS

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 the Pleasant Valley Campground located about 8 miles WNW 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 the geologic features are 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. The map on Page 4 of the Sign-Up packet (see PDF attached to the announcement email) show a preliminary schedule of stops with the day of the field trip in parentheses. The itinerary is being refined and 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 for the trip. Each camp site is allotted 6 people and 2 vehicles (carpooling is critical for this trip!). A couple of these camp sites can accommodate an RV or trailer so please let me know if you plan on bringing either an RV or trailer as space is limited. 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 White Mountains. The local fishing is quite good and you can literally cast a line from your tent! Fishing is **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! Also you can submit your reservation form during a meeting (paying by credit card with \$5 fee, cash or check) or you can mail in your reservation form and check to myself (Adam Avakian). See the PDF attached to the announcement email for more details.

Cheers!

Adam Avakian

2019 SDAG Vice President

Adam.avakain@dot.ca.gov

619-643-3122

ONE STOP WONDER ANNOUNCEMENT

State Route 74 - CalTrans Emergency Repair Work and Geology

Date: Saturday July 13, 2019

Time: 10:00 am

Location: State Route 74-Meet at intersection of Borco Street and Florida Avenue

Info: *If you do not RSVP for this trip, please do not attend. Logistics do not allow for last minute arrivals*

Come join Adam Avakian (VP) on Saturday July 13th to take a tour of the emergency repair work along State Route 74 from Post Mile 47 to 70. This is the stretch of highway between Hemet and Mountain Centre and down the back side of the San Jacinto Mountains towards Anza. We will be reviewing the highway damage that occurred during the February 14th storm event. We will look at the current repairs and talk a little about the emergency response, on the fly engineering and design, and construction applied to get these roads safely up and running for the public. I also plan on talking about the geology along this section of highway. We will see ancient landsides, San Jacinto Fault and Bautista Formation.

The section of highway is currently closed for construction. On the weekends the contractor is piloting traffic full time. Please bring a hard hat, safety vest, books, water and sunscreen. This is more of a driving tour but there will be pull outs to observe the repairs and geologic features. **Please respond to adam.avakian@dot.ca.gov if you plan to attend to get an accurate headcount. Do not plan on attending if you don't get a confirmation email. If there is very low interest, the OSW will not happen.**

The EERI San Diego Chapter invites you to two exciting events this August, a short course on seismic analyses tools and the second Kenji Ishihara Colloquium, happening on the beautiful campus of San Diego State University!

Short course on USGS Software Tools, August 21: Drs. Nicolas Luco, Peter Powers, and **Jorge Meneses** (M.EERI,2016) will present on various USGS web-based interactive tools available for site-specific ground motion hazard analysis. For more information, please click [here](#).

The second Kenji Ishihara Colloquium, August 22-23: With a theme of “Seismic Lateral Displacements,” this year’s event includes an extraordinary lineup of geotechnical and structural engineering speakers from USA, Japan, and Chile. We’ve confirmed several prestigious speakers and will continue to add others. Click [here](#) for a list of speakers, their bios, and abstracts. At the colloquium, we’ll also honor the lifetime contributions and achievements of Prof. T. Leslie Youd, Professor Emeritus, Brigham Young University with a gala dinner on August 22.

For more information and to register, please click [here](#).

We look forward to seeing you all in beautiful San Diego!

Support SDAG/SDGS using AmazonSmile



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

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/>

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.



Photo of our June OSW at Miner's Ridge Trail.

By Diane Murbach



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



Contact: Rupert Adams, CEG

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

San Diego / Riverside County / Palm Desert / Los Angeles /

Orange County / Bakersfield / Bay Area / Fairfield / Sacramento



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
- Marty and Sherry Bloom
- Joe Corones
- Greg Cranham — Consulting Geologist
- Dr. Margaret R. Eggers, CHG — [Eggers Environmental, Inc.](#)
- Karen Evans for Jim Evans (Deceased)
- Phil Farquharson — [Geology Guy](#)
- Carolyn Glockhoff — [Caro-Lion Enterprises](#)
- Rob Hawk
- Tom Lamb
- [Leighton Group](#)
- Lowell A. Lindsay & Diana Lindsay — [Sunbelt Publications/AESE](#)
- Cari & Dan Gomes – [Pinao Consulting](#), CAVU Brewing
- Dr. Monte Marshall—SDSU Prof. of Geology & Geophysics, Emeritus
- Jennifer Morton — [Terramar Environmental](#)
- Monte and Diane Murbach — [Murbach Geotech](#)
- Peet’s Coffee and Tea Solana Beach
- Pure Wine, Inc. - www.drinkpurewine.com
- Gerald Shiller
- [Scott Snyder](#)
- David and Jan Steller
- Dr. Anne Sturz

- Carole L. Ziegler

- Vic Camp

Add yourself to this list - Sponsors, Corporate Sponsors, and Patrons provide a significant portion of SDGS's and SDAG's operating and scholarship budgets. SDGS is a 501(c)3 public benefit nonprofit educational corporation. For more information, please see our Sponsorship Form <http://www.sandiegogeologists.org/SponsorForm.pdf>.