

SAN DIEGO ASSOCIATION OF GEOLOGISTS

<http://www.sandiegoeologists.org>

SDAG MEETING ANNOUNCEMENT

Wednesday, March 18th, 2020

Natural History of Anza Borrego Region

Presented by: Mike Wells

- Where:** **Testo Pepesto**
221 E. Main Street
El Cajon, CA 92020 (See Map)
- When:** 5:30 pm – Social Hour
6:30 pm – Dinner
7:30 pm – Presentation
- Dinner:** Italian Buffet
- 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 March 16, 2020**. 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 8 EAST:** Take exit 15 towards El Cajon Blvd. Keep left to continue onto El Cajon Blvd. In 1.3 miles the street will change to W Main Street continue driving for 0.4 miles and the destination will be on your right.

FROM INTERSTATE 8 WEST: Take exit 17 towards Downtown. Continue onto N. Magnolia Ave. Drive for 0.6 miles and turn left onto E Main Street. The destination will be on your right in 0.1 miles.

ABSTRACT

Mike will be sharing his knowledge on the natural history of Anza Borrego Region and discussing topics presented in the featured book *A Natural History of the Anza-Borrego Region: Then and Now*. This book evolved from a course on the natural history of the Anza-Borrego region that was developed by the authors over a 16-year period and taught at the University of San Diego. It tells a coherent story of how the landscape and features of a desert region evolved over time and how organisms that inhabit the desert have adapted to the conditions found there by taking many different evolutionary paths to deal with aridity, heat, and saline soils. The result is an amazing biological diversity that has evolved in response to these conditions. This book is encyclopedic in detail and is yet very readable. Each illustration was handcrafted to tell a story and to help the reader better understand the fascinating story of this unique desert place and its first human inhabitants. This is the “go-to” book for anyone wanting to understand the natural environment of the Anza-Borrego region.

BIO

Mike Wells completed a 34-year career with California State Parks in 2010. His first permanent assignment in 1977 was Anza-Borrego Desert State Park, where he served as a state park ranger. Over the next three decades he enjoyed assignments in the Sierra Nevada foothills, coastal redwoods, and beaches, serving as a ranger, resource ecologist, and park superintendent. His final assignment was district superintendent of the Colorado Desert District, which includes ABDSP. Mike has a PhD in physical geography from a joint program with San Diego State University and the University of California, Santa Barbara. His area of study is fire ecology of southern California forest and chaparral communities. He was a lecturer for the Department of Biology, University of San Diego, from 2001–2017.

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

April 15, 2020 GRA joint meeting	Cannabis, Water and Environmental Crimes in Southern California By: Eric Lindberg, PG, CHG
May 20, 2020	Student Speaker Presentations
June 2020	TBD

2019 SDAG EXECUTIVE COMMITTEE

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One Stop Wonder

Hello SDAG! Please join us for the next OSW to the Moly Mine in Palo Verde Canyon, Anza Borrego State Park on Sunday March 8th. We will meet on S-22, across from the entrance to Palo Verde Wash, at 10:00 am. This is an intermediate hike, 4.5 miles, approximately 3 hours roundtrip, with an elevation gain of 650 feet. Bring lots of water!

Directions: From Julian, drive east on Hwy 78 to S-3. Turn left (north) and follow S-3 to Christmas Circle and S-22. Turn right (east) on S-22 and drive 14 miles to Mile Marker 33 and the turnoff for Palo Verde Wash and park.

Below are links to additional information provided by Diana Lindsay:

Photos and plant ids from past years:

<https://thebackcountry.varnell.org/Canyoneers/Hikes/Desert/PaloVerdeCanyon>

Interactive map:

<https://maps.varnell.org/hikes/PaloVerdeCanyonTheMolyMineTrack.html>

Roam-O-Rama article:

[Palo Verde Canyon and the Moly Mine](#)

SDAG PRESIDENT'S CORNER

Hi SDAG Friends,

Thank you all for attending the February meeting. We had a great turnout and Jeremy Faker provided a very good and informative discussion about storm water BMPs, an engineering feature that so many of us who are consultants deal with. Our March meeting is looking to be a lot of fun. First off, we are checking out a new meeting venue called Testo Pepesto. It is an Italian restaurant in El Cajon. For the talk we will switch gears to a more academic topic. Dr. Mike Wells will talk about the natural history of Anza Borrego region. Mike has co-authored with Marie Simovich a Sunbelt Publications book called A Natural History of the Anza-Borrego Region: Then and Now. He will be discussing topics covered in the book and doing a book signing at the beginning of the meeting. Anza Borrego is a beautiful location that many of us San Diegans have adventured around in. It will be great to hear an expert talk about the beautiful and interesting environment that attracts us to the location. Other exciting announcements include the introduction of the 2020 SDAG Annual Field Trip location. Our Vice President Luke Weidman has confirmed that the trip will involve exploring the geology of Temecula. So that is guaranteed to be a great time. Hope you all are enjoying the warmer weather. It's starting to feel a little more like spring time and for those of you who are surfers we are already getting some early season south swells. Hope to see you all in a few weeks!

Adam Avakian, SDAG Prez

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](#).

National Earthquake Conference

The 2020 National Earthquake Conference (NEC) <http://www.earthquakeconference.org/> will take place during the week of March 2, 2020 in San Diego and will bring together academia, building code experts, design/build professionals, FEMA directorates, first responders, geologists, local emergency managers, insurance and reinsurance professionals, local and tribal governments, private-sector interests, public information officers, state government leaders, social science practitioners, U.S. State and Territorial Earthquake Managers, USGS leadership, and volunteers. Attendees will share the latest advances in earthquake science, engineering, policy, and practice to create more resilient buildings and disaster-resilient communities in the face of seismic risk. The results of a new earthquake scenario and risk study for the San Diego region will be a key highlight of the conference. Developed by experts over the last five years, the scenario will showcase the impacts and consequences of a potential M6.9 earthquake on the Rose Canyon fault that runs through the San Diego harbor, resulting in significant disruption and loss to local communities. Participating experts will share findings from seismological and geologic simulations, engineering inventory and assessment studies, and local stakeholder focus groups.

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.sandiegoearthquakes.org/SDAG_Pubs_authors.pdf

http://www.sandiegoearthquakes.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 2020 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

Bay West LLC is a recognized leader delivering Environmental Solutions nationwide. Now in our 44th year of service, we are continuing to grow and expand on a national platform. Bay West offers a diverse mix of expertise in the following areas; environmental consulting, engineering, emergency response, waste management and Federal contracting services.

Bay West has opened a San Diego, CA office and is seeking a mid-level **California licensed Professional Geologist** with hands-on experience supporting Federal Project Managers who enjoys a variety of responsibilities that include working in the field as well as in the office. This role is considered a career-track position to become a Federal Project Manager or Senior Technical Advisor who provides support to Project Managers.

Responsibilities:

Responsible for supporting multiple concurrent long-term projects from cradle to grave. Office administrative tasks will include supporting estimates and proposals, effectively qualifying and selecting subcontractors, supporting contracts to maintain budgets and track schedules (office and field). A significant percentage of the individual's time will be spent authoring and reviewing technical documents including Work Plans, Engineering Evaluation/Cost Analyses (EE/CA), Uniform Federal Policy Quality Assurance Project Plans (UFP-QAPPs), Technical Memoranda, Records of Decision (ROD), Remedial Investigation/Feasibility Studies (RI/FS), Proposed Plans, and periodic monitoring reports. The individual will assist the project manager with the coordination of field activities and support various projects being performed under CERCLA/RCRA on active military installations, Formerly Used Defense Sites (FUDS), and Base Realignment and Closure (BRAC) facilities. The individual may be asked to maintain and/or create project schedules using Microsoft Project or Primavera.

Requirements:

- Bachelor's degree in Engineering, Geology, Environmental Science, or a related technical field.
- Registered California PG or PE
- Minimum 5 years of project support experience; with federal environmental restoration projects under the DoD (including USACE, USAEC, AFCEC & NAVFAC and/or US-EPA).
- Thorough understanding of RCRA and CERCLA processes.
- Must have the willingness and ability to accurately interpret and apply knowledge of environmental theories, processes, and state and federal reporting requirements.
- A thorough working knowledge of Microsoft Word and Excel are required with strong data management skills.
- Outstanding technical writing and communication skills.
- Ability to present technical site summaries to the project team.
- Must foster friendly, positive, productive, and team relationships.
- Ability to read and understand maps, schematic drawings, diagrams, and instruction manuals.
- Must be willing and able to travel between 20% - 25% of the time.
- The successful candidate must be capable of receiving a US Government security clearance.
- US Citizenship Required

Preferred Requirements:

- 40 Hour HAZWOPER is preferred but not a requirement (Bay West will provide this training for candidates that currently lack it).
- 30 Hour USACE Construction Quality Management Certification
- Experience working with MS Project and Primavera
- Experience working for an environmental consulting firm.
- College coursework in organic and inorganic chemistry and contaminant fate and transport.

Compensation:

In exchange for your high performance and team participation, Bay West offers long term growth potential, competitive salary and benefits package, and bonus potential in a business casual environment.

Bay West is an equal opportunity employer that recognizes the value of a diverse workforce. Bay West is an EEO/AA Employer Minority/Female/Disabled/Veteran/Sexual Orientation/Gender Identity employer.

Liz Schmillen

Director, Human Resources

direct: 651-291-3490 · cell: 952-239-8693

lizs@baywest.com

www.baywest.com



Senior-level Geologist/Environmental Engineer/Environmental Scientist San Diego, California

Geocon is seeking a Senior-level geologist/engineer/scientist to assist and manage environmental consulting projects for a wide variety of private and public sector clients. The ideal candidate would have at least 12 years of experience performing environmental assessment and investigation, risk assessment, remedial alternatives evaluation and design/planning, and cleanup implementation and/or oversight with land development and downtown redevelopment projects. They would have the ability to evaluate sites, available data and information, develop plans for next steps, and be familiar with state and local regulations (e.g. DEH, DTSC, RWQCB). Flexibility to work on a multitude of diverse projects, a positive attitude, excellent written and verbal communication skills, and a commitment to workplace health and safety are imperative.

Job Description:

- Perform and/or manage Phase I and II Environmental Site Assessments, asbestos and lead surveys, and other soil, soil vapor, and groundwater investigations.
- Prepare site assessment reports, soil management plans, remediation plans and reports, and proposals and statements of qualifications.
- Coordinate permitting and subcontractors, oversee subsurface exploratory borings/trenches, install and sample soil vapor and groundwater monitoring wells, etc.
- Develop and maintain growing client base.

Experience/Requirements:

- Bachelor's or Master's Degree in Geology, Hydrogeology, Civil (Environmental) Engineering or related science field.
- Professional Registration (PG, CEG, CHG, or PE) required.
- Minimum 12 years of experience in environmental consulting.
- OSHA 40-hour HAZWOPER and current 8-hour annual refresher certification.
- Experience interacting with clients, functioning on cross-disciplinary teams, and managing subcontractors.
- Valid California drivers' license, current DMV printout, and vehicle for use to travel to various sites.
- Able to pass drug screening, background check and physical exam.

This is an immediate opening in our San Diego office. For consideration please email resume to Troy Reist at reist@geoconinc.com.

Brian F. Smith and Associates (BFSA) has immediate openings for several qualified individuals including Paleontological Monitors for projects in San Diego, Riverside, Orange, and San Bernardino Counties. Positions require a B.A. or M.A. in geology, paleontology, or a related field. The selected applicant(s) for the position of field monitor that holds a bachelor's degree in geological sciences can look forward to working under the responsible charge of BFSA's senior paleontologist, who is also a California Professional Geologist (PG). BFSA is the only company in San Diego County providing paleontological consulting with oversight by a California PG as part of its full-time staff, and one of the few in southern California. As a member of the BFSA monitoring staff performing professional geologic work, the selected applicant may gain time-credits for professional experience toward meeting California PG application requirements. Compensation will depend upon qualifications and ability. Please send or fax a current resume, or vita and references to resumes@bfsa-ca.com or fax to 858-679-9896.

Brian F. Smith and Associates (www.bfsa-ca.com) offers consulting services pertaining to all aspects of paleontology, archaeology, biology, history, air, traffic, noise and investigations throughout the southwest, primarily in southern California. The combined experience of the principal consultants and associates represents over 100 years of involvement in the study of the history and prehistory of this region. BFSA's capabilities are highlighted by the range of current projects, including construction monitoring, data recovery mitigation programs, historical structure assessments, surveys and evaluations for both the California Environmental Quality Act (CEQA) and Section 106 of National Historic Preservation Act (NHPA).

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.

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Geotechnical Exploration, Inc.

SOIL AND FOUNDATION ENGINEERING • GROUNDWATER • ENGINEERING GEOLOGY

PROJECT GEOLOGIST

Geotechnical Exploration, Inc., a geotechnical engineering company founded in 1976, is seeking a qualified individual for a Project Geologist position available immediately. Position duties, criteria & requirements are as follows:

- Manage and/or perform all phases of a wide variety of development/construction projects
- Supervise the work of staff geologists and technicians
- Prepare geologic/geotechnical reports and review reports prepared by staff geologist and engineers
- Prepare and review boring and trench logs
- Perform and supervise field exploration programs, background reviews, and geological mapping
- Prepare and present proposals, scopes of work and budgets for new projects
- Interface with the client and team to proactively troubleshoot and problem-solve using practical, client-focused solutions
- Manage projects, budgets, scope, change orders and collections (from start to finish)

A strong command of regional soils and rock identification and properties, geologic hazards identification, and all applicable forms of construction observation/testing is mandatory. In addition, the qualified individual should

- Be technically competent in routine geotechnical matters and have a complete understanding of geologic factors which affect engineering design
- Have excellent communication skills (written and verbal)
- Have strong computer skills - Word, Excel, and Google Earth
- Be able to organize priorities and multi-task effectively in a team environment and play well with others
- Have a BA/BSc in Geology plus a minimum of 5 years project-level experience

Must have Professional Geologist Registration for State of California

Certified Engineering Geologist for State of California is preferred but not required

Salary commensurate with experience. Please email resumes to info@gei-sd.com

Vacancy in the Site Restoration and Agricultural Program Unit

The San Diego Water Board, part of the California Environmental Protection Agency, has an opening for a full-time Engineering Geologist position in San Diego. The position involves a wide range of geological work and projects throughout a large area of Southern California. Get your applications in now for this exciting opportunity to work with other environmental professionals to protect and restore our natural resources.

Complete applications are due February 19, 2020. Get started now and the first step is to make sure you are on the eligibility list by taking the “exam” here:

<https://www.jobs.ca.gov/CalHrPublic/Exams/Bulletin.aspx?examCD=8PB70>

All the information about the position and how to apply is here:

<https://www.calcareers.ca.gov/CalHrPublic/Jobs/JobPosting.aspx?JobControlId=189049>



SNAPNHD

SnapNHD is looking to hire an experienced geologist to review our natural hazard disclosure report and act as an ongoing advisor to the company. If you are interested in learning more, please contact will@snapnhd.com. A sample report can be found here: [Sample Report](#)

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.



SDAG founders at last month's meeting: 1978 President Greg Ferrand and 1973 President Mike Hart. Photo by Todd



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



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

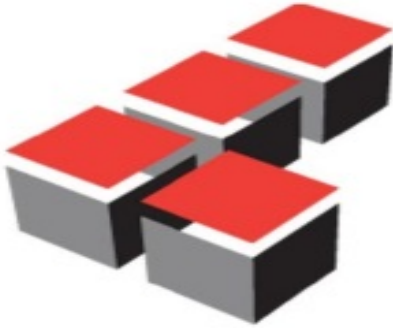


Contact: Rupert Adams, CEG

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

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Leighton

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
- Lowell A. Lindsay & Diana Lindsay — [Sunbelt Publications/AESE](#)
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- Joe Coronas
- Dr. Monte Marshall—SDSU Prof. of Geology & Geophysics, Emeritus
- Greg Cranham — Consulting Geologist
- Jennifer Morton — [Terramar Environmental](#)
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- Monte and Diane Murbach — [Murbach Geotech](#)
- Karen Evans for Jim Evans (Deceased)
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