

SAN DIEGO ASSOCIATION OF GEOLOGISTS

www.sandiegoeologists.org

SDAG-EERI-ASCE JOINT MEETING ANNOUNCEMENT
WEDNESDAY, SEPTEMBER 25, 2013 (FOURTH Wednesday)
**SEISMIC DESIGN AND RISK EVALUATION OF NUCLEAR
POWER PLANTS**

Presented by

Dr. Annie Kammerer
US Nuclear Regulatory Commission

- Where:** Tom Ham's Lighthouse
2150 Harbor Island Drive, San Diego
(619) 291-9110
- When:** 5:30 pm – Social Hour
6:30 pm – Dinner
7:30 pm – Program
- Dinner:** Buffet
- Cost:** \$40 per person, \$5 discount for members, STUDENTS: \$20. Add \$5 if you did not make a reservation.

Reservations: Make your reservation **online** at www.sandiegoeologists.org no later than noon on **Friday, September 20th.**



**RESERVATIONS CANNOT BE GUARANTEED AFTER FRIDAY AT 12 NOON,
BUT THEY ARE ALWAYS PREFERRED OVER WALK-INS**

SPEAKER ABSTRACT

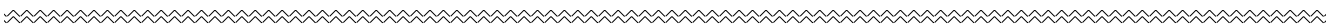
**Dr. Annie Kammerer
US Nuclear Regulatory Commission**

Seismic Design and Risk Evaluation of Nuclear Power Plants

Since the beginning of the nuclear power industry, the framework and methods used in the seismic design and risk evaluation of the fleet of nuclear power plants in the US has gone through significant change and advancement. Currently the US regulatory framework uses a risk-informed, performance-based framework that has matured over the last 5 decades and is composed of three steps: probabilistic seismic hazard analysis, seismic design, and seismic probabilistic risk assessment.

SPEAKER BIO

Dr. Annie Kammerer is a senior seismologist and earthquake engineer in the Office of Research of the US Nuclear Regulatory Commission, where she is the coordinator and manager of the seismic and tsunami research program. Her research is principally in the areas of seismic and tsunami hazard and risk assessments, seismic isolation, and technology-neutral approaches to seismic design. Currently she is also the NRC's technical lead for a special program conducting Seismic Walkdowns of all 104 operating US nuclear plants in response to the Fukushima Daiichi accident. She is active internationally and chairs an IAEA Working Group on Seismic Re-evaluation of Operating Reactors, as well as special committee developing new guidance on seismic isolation. Prior to joining the NRC in 2006, she was a consultant in the Risk and Advanced Technology groups in the international design firm, Arup. As seismic hazard lead for the Americas, her consulting work encompassed a wide variety of technical areas including geotechnical earthquake engineering, structural dynamics, seismology, and risk assessment. Her work focused principally in the energy, industrial and transportation sectors and included dozens of projects around the world. She holds three degrees from UC Berkeley, including a PhD in geotechnical engineering with minors in strong motion seismology and structural engineering.



SDAG MEETING SCHEDULE - Mark Your Calendars!

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

October 16, 2013	Len Sinfield - A Year in Kandahar
November 20, 2013	Nick Clapp - Mojave Mining History
December 18, 2013	Dr. Tom Demere, San Diego Natural History Museum



2013 EXECUTIVE COMMITTEE

PRESIDENT – Cari Gomes; *MiraCosta College* cg7783@yahoo.com

VICE PRESIDENT – Brian J. Olson; *FSR Engineering*; Ph: (858) 750-9243; bolson@fsrengineering.com

TREASURER – Lee Vanderhurst; Ph: (858) 531-7729; lee@leev-geology.com

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

PRESIDENT'S CORNER

Hello Everyone:

We had a great meeting in August! Dr. Rockwell treated us to a wonderful presentation, and Tom Ham's was beautiful. A special thanks to GORP- Good 'Ole Reliable Phil (Farquharson)- for use of the adaptor for that pesky Mac!

This month promises to be a great meeting as well: we are privileged to have a representative from the Nuclear Regulatory Commission (NRC) giving us an update on the San Onofre Nuclear Generating Station (SONGS). Tom Ham's will again be the venue for this event.

Have a great September!

Cari Gomes
SDAG President

GEOLOGY PHOTOS OF THE MONTH



Colored tourmaline crystals imbedded in a quartz pod – Ocean View Mine



Quartz crystal pocket – Ocean View Mine

Photos submitted by Chuck Houser

BOUSE FORMATION (?) IN THE COYOTE MOUNTAINS

While Bill Elliot was working on his Bouse paper for the 2011 field guide, *Picacho and the Cargo Muchacos*, he asked us if we knew of any sedimentary sequences on the west side of the Salton Trough that could possibly contain the Bouse Formation. Bill thought that the Bouse should be present on the west side of the Salton Trough.



The Miocene (?) Bouse Formation is a fresh water sedimentary sequence associated with the Colorado River that is only found on the east (?) side of the San Andreas Fault and north of Yuma, Arizona. The Bouse is fresh water in origin but contains marine fossils that complicate the interpretations of the formation's depositional environment. One of the important members of the Bouse is a distinctive limestone that is associated with a sandstone.

Bill, JR, and I looked at areas on the west side of the Salton Trough for sediments that we could call Bouse, but were unsuccessful.

A few months later, while continuing our 1:2000 scale mapping of the Coyote Mountains, we came across a 2 meter thick fresh water limestone that we think is a Bouse Formation equivalent. The outcrops cover at most only 200 square meters. This limestone was deposited between two of the Imperial Group's transgressional-regressional sedimentary sequences. The limestone outcrops are associated with what appears to be fresh water sandstone (no fossils) and fanglomerates. The limestones are also partially capped by fresh-water tufa. No marine fossils were seen in the outcrops or in the thin section we cut of the limestone. The Bouse is considered by many to be older than the Imperial Group.

The late Miocene to mid-Pliocene Imperial Group is found on both sides of the San Andreas Fault and represent deposition in pull-apart basins associated with the arrival

of the Gulf of California. The Imperial Group is not found north of Yuma along the Colorado River. The Imperial Group marine sediments are rich in fossils. The marine sandstones and mudstones associated with the Imperial Group are derived, for the most part, from the Colorado River sediments; this implies that the freshwater limestone found in the Coyote Mountains is also derived from the Colorado River.

George and JR Morgan



Photo index map. CM indicates location of Coyote Mountains.

ANNOUNCEMENTS

SDAG Field Trip 2013

San Luis Rey on Display: A Geoscientific Panorama in Northern San Diego County

The 2013 San Diego Association of Geologists annual field trip will examine the geology and natural history unique to the San Luis Rey River Valley, a “jewel” in northern San Diego County, California. We expect to have geoscience to interest and entertain all.

With the assistance of our own local contributors, we will be afforded looks into the petrology, mineralogy, hydrology, geomorphology, paleontology, archeology and more!

DATES: **August 19, 2013:** Last day to guarantee reservation spots. Hereafter, reservations are on a space-available basis.

Friday, November 8th: (Optional) Afternoon check-in to the Campground. Socializing.

Saturday, November 9th: Road Log Run. With an early am start, we will take a consolidated collection of vehicles through some of the more noteworthy waypoints. Lunch, snacks, an evening camp presentation, and dinner will be provided.

Sunday, November 10th: After a continental breakfast*, we will complete a road log. Spend the balance of the day prospecting for semiprecious stones, and going underground at the Oceanview mine above Pala**. A gourmet outdoor lunch and refreshments will be provided.

Base camp is the Lilac Oaks Campground in Valley Center. We have the entirety of the Hawk’s Nest Group Camp reserved. www.lilacoakscampground.com/. Includes rustic restrooms with showers. picnic benches in camp. Due to limited vehicular space in the group camp, be prepared for vehicle parking on the adjacent soccer field (map attached).

* After departing the campground Sunday morning, transportation will be by individual private vehicles for Sunday’s activities. Any road log stops, as well as the Oceanview Mine, will have suitable room for our numerous vehicles.

** Part of the visit is to include a geologist-guided trip into the mine workings. Good physical mobility is a requisite of the mine owners, and liability releases for all attendees will need to be executed

RECOMMENDED EQUIPMENT: Bring everything you need to get a good night's sleep, Tent, etc. Folding chair and evening drinking vessel.
A one to five gallon bucket and gardening gloves (for Sunday).
A camera, and anything else you may require to geologize.

COST: \$175 per person. Discount for SDAG members and students. Fee includes guidebook, campground fee, five meals, snacks, and beverages. Fees are non-refundable. All ages welcome. The campground and Oceanview mine activity in particular are very “kid friendly” and stand to be lifelong memories.

RESERVATIONS: In order to guarantee spots the mine tour and tourmaline dig, SDAG must expedite the reservation schedule. We are still accommodating reservations on a space available basis, but we unfortunately CANNOT guarantee a full-featured trip. Please contact us (below) to check on space availability prior to submitting the following.

ADDITIONAL INFO/QUESTIONS: Contact SDAG VP Brian J. Olson at bolson@fsengineering.com.

ANNOUNCEMENTS

AESE ANNUAL MEETING REGISTRATION IS OPEN Meeting registration and hotel reservations are open for the 47th annual meeting of the Association of Earth Science Editors (AESE), “Native Resources: Building on the Bedrock of Geoscience Editing,” to be held **October 10–13, 2013**, in Tulsa, Oklahoma. AESE will meet in the top-rated Courtyard by Marriott Tulsa Downtown, 415 South Boston Avenue, the recently renovated historic Atlas Life Insurance building in the Art Deco district of “America’s Most Beautiful City.” Tulsa was the “Oil Capital of the World” for several decades and a center of development for petroleum geoscience.

The meeting will include an opening reception, technical talks, field trips, freelancers’ breakfast, survey editors’ breakfast, business luncheon, awards dinner with entertainment, and optional free-time activities. The board will meet at 1 p.m. October 10 and 9 a.m. October 14.

Hotel reservations are due by September 26. Be sure to ask for the AESE room rate of \$89 per night.

The field trips will focus on “Exploring our Black Gold Legacy: The Geology, Art, and Architecture of Oklahoma Oil Men.”

AESE members are involved in editing and publication of material pertaining to the earth sciences. AESE provides a forum for the interchange of ideas for more effective dissemination of earth-science information to the scientific community, educators and students, and the public.

For details about the meeting, see the registration form. For more information, contact Rowena Mills, host chair, hrmills777@yahoo.com, visit www.aese.org.

AESE REGISTRATION FORM
Association of Earth Science Editors 47th Annual Meeting
Tulsa, Oklahoma, October 10–13, 2013

Full name _____
 First name for badge _____
 Affiliation for badge _____
 Address _____
 City/state (province)/ZIP (postal code) _____ Country _____
 Telephone (_____) _____ Fax (_____) _____
 E-mail (for registration confirmation) _____

REGISTRATION

Full registration fees cover admission to all sessions, opening reception, business lunch, awards banquet, and field trips.

AESE members

Full meeting	On or before September 1	\$295	After September 1	\$345	\$ _____
One day	On or before September 1	\$125	After September 1	\$150	\$ _____

Nonmembers

Full meeting	On or before September 1	\$345	After September 1	\$395	\$ _____
One day	On or before September 1	\$150	After September 1	\$175	\$ _____

Nonmember registration includes membership for the remainder of AESE's fiscal year.

Guest registration (includes opening reception, awards banquet, one half-day field trip, one full-day field trip)

\$150 (U.S.) each for _____ person(s) \$ _____

If guest wishes to attend the business luncheon on Friday, October 11, please add \$25 \$ _____

Guest name(s) _____

Optional events

State, provincial, and national surveys editors' breakfast (Friday, October 11)	\$20	\$ _____
Freelancers' breakfast (Saturday, October 12)	\$20	\$ _____

TOTAL FEES ENCLOSED \$ _____

Board: First board meeting 1 p.m. October 10; second board meeting 9 a.m. October 14. Plan your travel accordingly.

I plan to attend:

- | | |
|---|---|
| <input type="checkbox"/> Opening reception (Thursday evening) | <input type="checkbox"/> AESE business luncheon (Friday) |
| <input type="checkbox"/> Awards banquet (Saturday evening) | <input type="checkbox"/> Half-day field trip (Saturday afternoon) |
| <input type="checkbox"/> Survey editors' breakfast (Friday) | <input type="checkbox"/> Full-day field trip (Sunday) |
| <input type="checkbox"/> Freelancers' breakfast (Saturday) | |

Dietary and/or transportation restrictions _____ (Add extra page if needed.)

For further information about the meeting, e-mail
 Rowena Mills, host chairman
 hrmills777@yahoo.com

Pay by credit card or PayPal at
<http://www.aese.org/paypal.html>

*All checks must be electronically transferable to a U.S. bank that is imprinted on the check and includes the nine-digit routing number between "smiley faces." Checks without the nine-digit routing number will be returned.

Mail registration form and check* or money order payable to AESE in U.S. funds to

Mary Ann Schmidt
 554 Chess Street
 Pittsburgh PA 15205-3212
 (412) 268-4708
maryanns@andrew.cmu.edu

HOTEL DEADLINE SEPTEMBER 26
 Call the Courtyard by Marriott Downtown, 415 S. Boston Ave., Tulsa, at 918-508-7400 or 877-894-2809. **Ask for the AESE rate of \$89 per night by Sept. 26.**

ANNOUNCEMENTS

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.

CALL FOR PHOTOS! SDAG invites members to submit photographs of an interesting geologic feature for publication in the Geology Photo of the Month section of the newsletter. Please submit your photo along with a caption to the SDAG secretary via email.

VINTAGE SDAG GUIDEBOOKS NOW AVAILABLE FOR FREE DOWNLOAD! If you want to complete your collection, or just see what SDAG was up to in the 1970s, check out our website's publication page, and scroll all the way down: <http://www.sandiegogeologists.org/Publications.html> In addition to our very first publication in 1972, a field trip to Otay Mesa, you'll find our 1973 *Geology and Hazards of San Diego* volume, the first of two guidebooks to the Coronado Islands, in 1978, and our 1987 field guide to the gold mines of Julian. Happy reading!

SDAG RESEARCH TOOL A comprehensive listing of all papers published by SDAG, whether as annual field trip guidebooks or special publications, is available on our website. Entries are sorted by primary author, or chronologically by date of publication, from our first guidebook in 1972 to all things Picacho in 2011. 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, "tsunami" 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

WAREHOUSE & OFFICE SPACE AVAILABLE in El Cajon, short-term rental or long-term lease. Warehouse from 3125 to 6250 s.f. Two offices. Mix and match to fit your needs. Ideal for geotech operations; best possible rates and we are geology-friendly. Contact Lowell Lindsay (619) 258-4911 x111, LLindsay@Sunbeltpub.com

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## **JOB OPENINGS**

### **Groundwater & Environmental Services, Inc. (GES)**

**Our San Diego, CA office seeks entry level Geologists, Environmental Scientists and Engineers to join their team.**

#### **Responsibilities and Duties:**

- Participates in monitoring well installations and sampling events
- Records data, prepares reports, provides analysis and interpretations of findings based on scientific experimentation and existing knowledge
- Completes quarterly groundwater monitoring reports
- Performs hydrogeological assessments regarding groundwater flows to identify contamination impact and related concerns
- Compiles and completes field notes on each event/site
- Researches information relating to identifying geological formations and soil delineation studies and prepares reports and geological maps based on the findings
- Participates in the identification of viable remedial solutions consistent with all Federal, state, and local regulations
- Performs groundwater sampling, gauging and product bailing, and surveying

#### **Requirements and Skills**

- A Bachelor's degree or higher in geology, environmental science, engineering or related scientific discipline.
- 0-2+ years of related experience. UST work and retail petroleum experience a big plus.
- Must be detail-oriented, and a team player with good communication, analytical, organization, and time management skills.
- Must have a clean driving record and be able to drive a company vehicle.
- Drug/Alcohol screening and a background check are required.

**Our comprehensive benefits include:** medical, dental, vision, prescription card, 401k, FSA, LTD, STD, New Parent Leave, 529 CollegeBound Fund, Tuition Assistance, Bonus Plan, and more.

GES is an equal opportunity/affirmative action employer that strongly values diversity.  
EOE/AA/M/F/V/D

Click here to apply: <https://www.hirebridge.com/v3/application/applink.aspx?cid=6004&jid=205941>

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**GES is growing and seeks experienced Mid-Level Geologists, Environmental Scientists and Engineers with environmental consulting experience to join their San Diego, CA team.**

**Responsibilities and Duties:**

- Responsible for most aspects of case management/project management with senior oversight.
- Prepares technically accurate, complete and concise work plans based on evaluation of site data needs.
- Performs or manages the implementation of project work plans including staff briefing, scheduling, subcontractor coordination and sample collection.
- Evaluates, analyzes and interprets technical data relative to project-specific goals, creates and interprets accurate data display graphs and figures, completes basic fate and transport analysis, and identifies data gaps and data needs leading to development of a Conceptual Site Model.
- Works with and mentors junior staff to ensure all resources are in place for proper fieldwork and reporting execution.
- Develops and manages budgets, evaluates budget vs. plan and analyzes cost control efficiencies.
- Communicates with clients, third party and regulatory agents regarding project status, schedules and compliance issues.
- Ensures adherence to client and corporate contract specifications in all activities including Health, Safety, Security, and Environment.

**Requirements and Skills**

- A Bachelor's degree or higher in Geology, Environmental Science or Engineering
- 4-7+ years of related experience. Experience must include hands on field and office based in environmental consulting field. Case management experience on retail petroleum and/or industrial projects preferred
- Must possess excellent communication and technical writing skills and be able to independently prepare a complete deliverable report with a focus on QA/QC
- Must have working knowledge of California's environmental regulations.
- Demonstrated proficiency with Microsoft Office suite, Adobe, geologic logging/cross section programs required. Experience with database/graphics management (Access, GIS, CAD) a plus
- A Background Check and an Alcohol/Drug Screening are required, as well as an assessment of core skills based on GES' internal position level guidelines.

**Our comprehensive benefits include:** medical, dental, vision, prescription, 401k, FSA, LTD, STD, New Parent Leave, 529 CollegeBound Fund, Tuition Assistance, Bonus Plan, and more.

GES is an equal opportunity/affirmative action employer that strongly values diversity. EOE/AA/M/F/V/D

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**GES seeks a Project Manager with environmental consulting experience to handle project oversight for our San Diego, CA office.**

**Responsibilities and Duties:**

- Oversees a portfolio of diverse environmental projects and supervises technical and field staff
- Manages client interaction and financial and resource allocation
- Provides senior project oversight and expert technical input on complex projects
- Reviews and approves project related documents and deliverables
- Evaluates subsurface characteristics for remediation projects, remedial system design, and regulatory negotiations
- Conducts performance reviews and project team meetings to review current and future projects, discuss project and/or employee issues, and staff workloads
- Collaborates with the Site Operations Manager to target new areas and opportunities for business
- Generates leads and develops new business opportunities through networking

**Requirements and Skills**

- A Bachelor's degree or higher in Geology, Environmental Science, Engineering or a related major
- 10-15+ years of technical environmental consulting experience in Site Investigation & Remediation, Due Diligence and Planning for petroleum and/or industrial clients is required
- Business development experience is a plus
- Advanced knowledge of California's environmental regulations
- Professional Geologist or Engineer certification (California) is a plus
- A Background Check and Drug/Alcohol screen are required

**Our comprehensive benefits program includes:** medical, dental, vision, prescription, 401k, FSA, STD, LTD, New Parent Leave, 529 CollegeBound Fund, Tuition Assistance, Bonus Plan, and more.

GES is an equal opportunity/affirmative action employer that strongly values diversity.  
EOE/AA/M/F/V/D

Click here to apply: <https://www.hirebridge.com/v3/application/applink.aspx?cid=6004&jid=205944>

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**GES San Diego office seeks a Senior Level Geologist, Environmental Scientist or Engineer, with an environmental consulting background, to join our team.**

**Responsibilities and Duties:**

- Self performs or directs junior staff in the oversight of soil boring activities, monitoring well installations, and other field activities including the oversight of subcontractors.
- Authors site work plan and proposals for more complex scopes of work including: comprehensive site characterizations and remedial action plans. These reports should contain multiple level and interrelated interpretations and conclusions as well as identify recommendations based on the conclusions.
- Provides technical and some financial oversight of medium size project sites. Technical responsibilities may include monitoring contaminant concentrations and fate/transport properties, QA/QC of data collected and documents generated, and ensuring compliance with applicable regulations. Financial duties may include evaluate budgets vs. plans, analyze cost control efficiencies, and review pre-bills and invoices.
- Communicates with third party and regulatory agents regarding schedules and compliance issues.
- Follows client contract specifications in all filed-related activities and informs project group of those specifications.
- Adheres to all GES Health & Safety standards and all Company Policies & Procedures in all project and field-related activities.

**Requirements and Skills**

- A Bachelor's degree or higher in Geology, Environmental Science, Engineering or a similar major.
- 8-15+ years of related experience. Experience should include: investigation, reporting and remediation of retail petroleum work or handling large volumes of a similar type work.
- Experience with Underground Storage Tanks (UST & LUST) and working knowledge of California's environmental regulations are required.
- Must possess excellent communication, teamwork, analytical, organizational, technical writing, and client service skills
- Professional certification a plus
- Drug/Alcohol Screening and a Background Check are required

**Our comprehensive benefits program includes:** medical, dental, vision, prescription, 401k, FSA, STD, LTD, New Parent Leave, 529 CollegeBound Fund, Tuition Assistance, Bonus Plan, and more.

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## **GES seeks an Office Lead / Senior Environmental Professional, to join their San Diego team.**

Our successful candidate will be responsible for managing complex project work, providing senior level technical guidance, spearheading client diversification initiatives, developing current customer relationships, and overseeing productivity, diversification, and profit and loss (P&L) for the San Diego office, while supporting and executing all corporate programs, policies, and procedures in a positive, can do manner.

### **Responsibilities and Duties:**

- Manages client interaction; personnel; and operational profit and loss (P&L) for our San Diego operations;
- Provides senior oversight, review and approval to project data, documents and deliverables to ensure technical, regulatory requirements and goals are adhered to, as well as, ensures company and client QA/QC standards are met.
- Develops strategies to generate leads for new business and participates in all aspects of bid and proposal preparation.
- Conducts performance reviews and project team meetings to review current and future projects, discuss project and/or employee issues, and manage staff workloads.

### **Requirements and Skills**

- A Bachelor's degree or higher in Geology, Environmental Science, Engineering or related;
- 10-15+ years of engineering and environmental consulting experience in California;
- Experience managing P&L and overseeing an environmental consulting office;
- Business development experience and a strong network within the San Diego area's environmental market (petroleum, industrial, etc.)
- Strong background in building an organizational structure, business processes/functions, and financials;
- Must have excellent employee relations skills and be able to identify, address, and resolve issues in a timely manner;
- Professional Engineer (PE) certification (California) is a plus; and
- A Background Check and Drug/Alcohol screen are required.

Our comprehensive benefits program includes: medical, dental, vision, prescription, 401k, FSA, STD, LTD, New Parent Leave, 529 CollegeBound Fund, Tuition Assistance, Bonus Plan, and more.

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EOE/AA/M/F/V/D

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## SEEKING JOB OPPORTUNITIES

I am a recent MS graduate in Geological Sciences, Hydrogeology from SDSU looking to work in hydrogeology, water resources, or natural resources management. My thesis was a study involving groundwater modeling. Additionally, I have eight years of local experience in environmental consulting. Please contact Cheryl Martin (Johnson) at [cheryl\\_k\\_johnson@yahoo.com](mailto:cheryl_k_johnson@yahoo.com) or call me at (619)-992-9335.

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**Qualifications Summary and Objective:** I have 14 years experience directing surface water quality monitoring programs with a proven record of excelling in monitoring plan implementation, quality control, public notification and continuous improvement in operational effectiveness and efficiency. I have built and maintained relationships with key staff in academia, industry, and all levels of government in San Diego and California. I have a widely applicable skill set which includes: analytical thinking, communication and writing skills, data analysis and management, inter and intra-agency project coordination, and staff supervision and training. My objective is to obtain a career position with an industry leader where I can contribute my skills to build the success of my employer as well grow professionally. Detailed work experience, education and more at [www.linkedin.com/in/cbclifton2010](http://www.linkedin.com/in/cbclifton2010). Email [cbc2006@cox.net](mailto:cbc2006@cox.net) or 619-964-1776.

Contact: Clay Clifton

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**ENGINEERING GEOLOGIST-** California PG, MS Geology, over 13 years of applied geotechnical experience, proficient in geotechnical investigations, hazard evaluations, geophysical surveys, construction management and quality control, engineering analyses, special interest in earthquake-hazard and seismic design related applications, strong problem-solving and organizational skills. Detailed resume upon request: Anna, 201-407-7461, [Afyodorova103@gmail.com](mailto:Afyodorova103@gmail.com)

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**ENTRY-LEVEL ENVIRONMENTAL SCIENTIST** - I am a recent UCSB graduate with a double major in Environmental Studies (BS) and Geology (BS, Earth Systems emphasis) who is looking to begin a career in environmental consulting. I have prior lab experience in both professional and academic settings. I am looking to establish myself with a passionate and hard working environmental firm in the San Diego region. For further information about my credentials and work experience please contact Georgi Chertkov at [georgichertkov@gmail.com](mailto:georgichertkov@gmail.com) or call me at 505-412-3107.

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Request for Sponsors: 2013 SDAG/SDGS and 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 at our San Diego Association of Geologists (SDAG). 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.



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HYDROGEOLOGY • ENGINEERING

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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 Reed**



Tetra Tech is a leading provider of consulting, engineering, and technical services worldwide. We are a diverse company, including individuals with expertise in science, research, engineering, construction, and information technology. Our strength is in collectively providing integrated services—delivering the best solutions to meet our clients' needs. <http://www.tetrattech.com>

Contact: **Dave Bloom**



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