

# SAN DIEGO ASSOCIATION OF GEOLOGISTS

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

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## SDAG MEETING ANNOUNCEMENT

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**WEDNESDAY, NOVEMBER 18, 2015**

### The Road to Ubar

*Presented by:*  
**Nicholas Clapp**

**Where:** Catalina Room (Southern end of MVCC; See Maps, Page 2)

1936 QUIVIRA WAY, SAN DIEGO, CA 92109

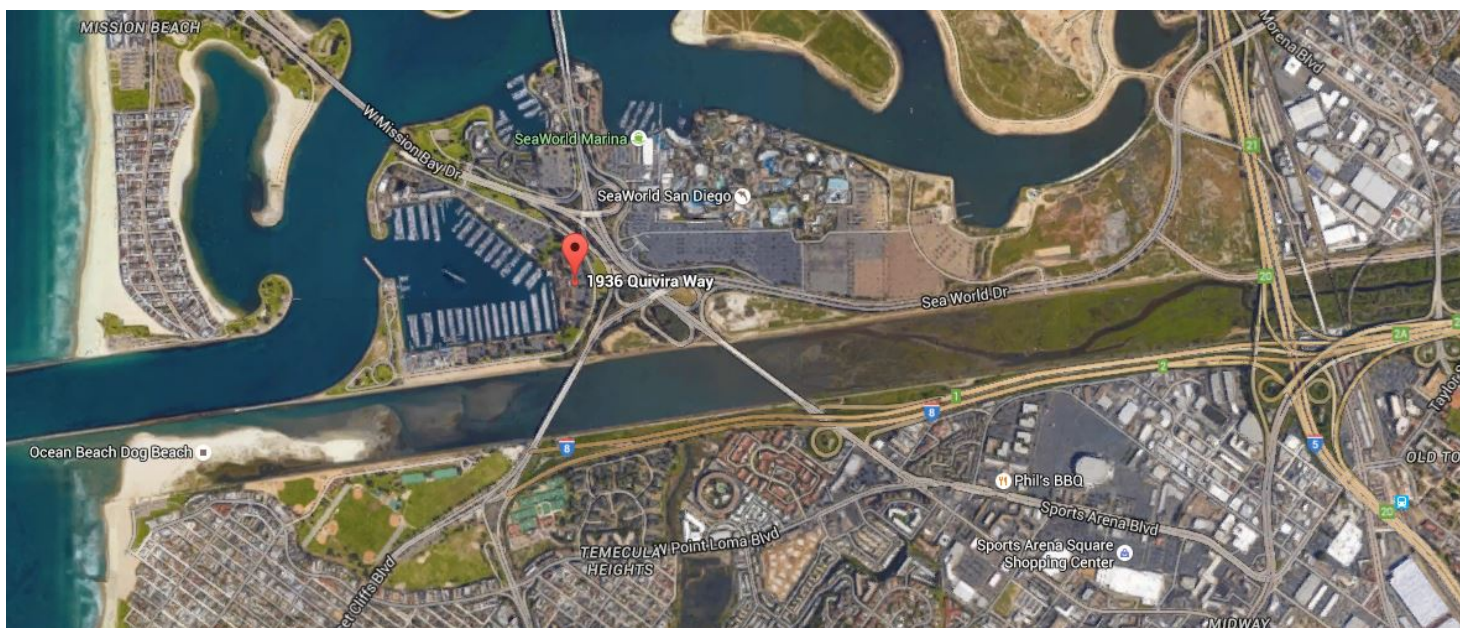
**Directions:** FROM INTERSTATE 5: Take the SEA WORLD DRIVE exit. From SEA WORLD DRIVE, take WEST MISSION BAY DRIVE on your right. When you see the large green sign that says QUIVIRA ROAD, get in the farthest left of the two left turn lanes. Turn left, go one very short block and turn left again. Drive about one half mile and MARINA VILLAGE will be on your right.

FROM INTERSTATE 8: Take the WEST MISSION BAY DRIVE exit to the right. You will be on INGRAHAM STREET for a short distance from which you will take the next exit marked WEST MISSION BAY DRIVE on your right. When you see the large green sign that says QUIVIRA ROAD, get in the farthest left of the two left turn lanes. Turn left, go one very short block and turn left again. Drive about one half mile and MARINA VILLAGE will be on your right.

**When:** 5:30 pm - Social Hour  
6:30 pm - Dinner  
7:30 pm – Program

**Dinner:** Italian Buffet. Iced tea, coffee, and dessert are included. Cash bar.

**Cost:** \$35 per person, \$5 discount for members, STUDENTS: \$15. Add \$5 if you did not make a reservation.



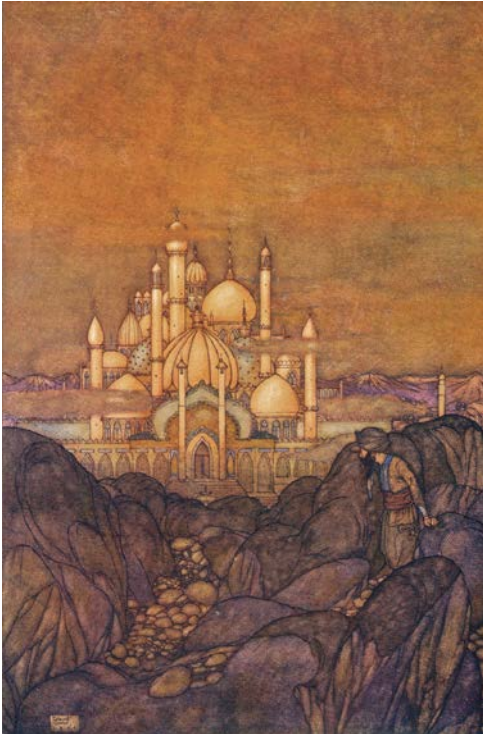
**Reservations:** Make your reservation online at [www.sandiegogeologists.org](http://www.sandiegogeologists.org) no later than noon, Monday September 14th. Reservations cannot be guaranteed after Monday at noon; but are always preferred over walk ins. Reservations well before the deadline are MUCH appreciated.



# **ABSTRACT**

## **The Road to Ubar**

*Presented by:*  
**Nicholas Clapp**



The most fabled city in ancient Arabia was Ubar, featured in both the *Arabian Nights* and the *Koran*, where it is a “many-columned city whose like has not been build in the whole land.” But like Sodom and Gomarrah, Ubar was believed destroyed by God for the sins of its people. Lost in the desert, it became “the Atlantis of the Sands.”

In the 1980s, Nick Clapp was to stumble on the legend. He researched medieval maps and manuscripts, and, working with NASA, found evidence of ancient caravan routes that were invisible on the ground. He then organized an expedition into the sands of Arabia, and after false starts, dead ends, and weeks of digging, his team uncovered the remains of a remarkable walled city with eight towers, a citadel, and artifacts dating back 4,000 years – they had found Ubar.

The story is told in an award-winning, one-hour documentary.

## **SPEAKER BIO**

Now living in Borrego Springs, Nicholas Clapp is a documentary filmmaker – and author of four recent books on the mining frontier of the American West. As well, he’s an amateur archaeologist with an interest in desert kingdoms of the Middle East. He’s been involved in excavations in Syria, Jordan, Yemen, and the Sultanate of Oman – where he co- led an expedition that discovered the fabled lost city of Ubar.



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## ***UPCOMING MEETINGS***

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

December 9 <sup>th</sup> , 2015	Annual Christmas Meeting
January 2016	TBA
February 2016	TBA

## **2015 SDAG EXECUTIVE COMMITTEE**

**PRESIDENT** – Jennifer Bauer Morton; [geologyjen@yahoo.com](mailto:geologyjen@yahoo.com)

**VICE PRESIDENT** – Randy Wagner; Ph: (760) 877-3490 [randallwagner@live.com](mailto:randallwagner@live.com)

**SECRETARY** –Rupert Adams, [rsa\\_sdag@geoconinc.com](mailto:rsa_sdag@geoconinc.com)

**TREASURER** – Chris Livesey, [liveseychris@yahoo.com](mailto:liveseychris@yahoo.com)

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

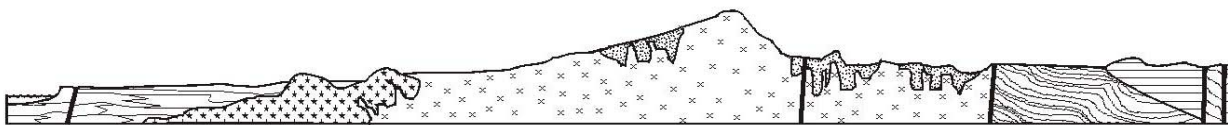
**WEBMASTER** – Carolyn Glockhoff; *Caro-Lion Enterprises*, Ph: (858) 549-3396; [carolyn@caro-lion.com](mailto:carolyn@caro-lion.com)

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## ***2015 SDAG MEMBERSHIP***

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It's never too late to pay your membership! The regular membership is \$25 (only \$5 for students) while the sponsor membership starts at \$100. Both forms are included on the following pages or they can be found on the home page of the SDAG website.



# SAN DIEGO ASSOCIATION OF GEOLOGISTS

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

## 2015 MEMBERSHIP FORM

NAME: \_\_\_\_\_ DATE: \_\_\_\_\_

Please type or print clearly.

Home Address: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Work Address: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

*Please include company, university or other affiliation*

Home E-mail Address: \_\_\_\_\_

Work E-mail Address: \_\_\_\_\_

**NOTE:** Your membership dues include delivery of the monthly SDAG newsletter and announcements to the email addresses given.

Phone: Home: \_\_\_\_\_ Work: \_\_\_\_\_ Cell: \_\_\_\_\_

Website: \_\_\_\_\_

Are you willing to serve as an **officer**? \_\_\_\_\_ Are you willing to volunteer as a **guest speaker**? \_\_\_\_\_

Field(s) of Interest: \_\_\_\_\_

Dues: \_\_\_\_\_ Student Member (email delivery only) \$ 5.00

(check choice)

\_\_\_\_\_ Regular Member (email delivery only) \$ 25.00

\_\_\_\_\_ Donation Student Scholarships \$ \_\_\_\_\_

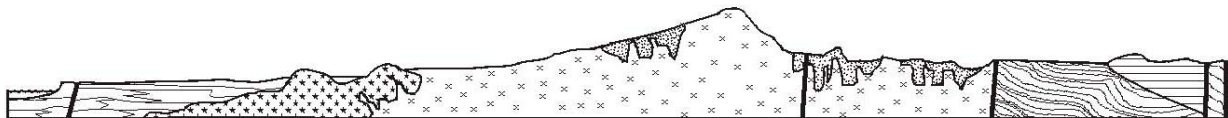
☐ New/Returning Member ☐ Continuing Member

Please enclose a check payable to SDAG, and mail to:

San Diego Association of Geologists (SDAG)

3130 N Evergreen Street

San Diego, CA 92110



## SAN DIEGO ASSOCIATION OF GEOLOGISTS 2015 SPONSORSHIP FORM

NAME: \_\_\_\_\_ DATE: \_\_\_\_\_  
(as you would like it to appear in Newsletter, Website, and Guidebook)

Please type or print clearly, and check ☒ preferred mailing address below.

☐ Residential Address: \_\_\_\_\_

☐ Office/School Address: \_\_\_\_\_

Website: \_\_\_\_\_

Home E-mail Address: \_\_\_\_\_

Work E-mail Address: \_\_\_\_\_

*NOTE: Your Sponsorship includes a complimentary SDAG membership, and delivery of the monthly SDAG newsletter and announcements to the email addresses given.*

Phone: Home: \_\_\_\_\_ Work: \_\_\_\_\_ Cell: \_\_\_\_\_

### Donation Level and Consideration:

☐ **EMERALD \$100.00** (In addition to monthly recognition for your contribution, you are entitled to a free Internet "link" from SDAG Website. We also list all Sponsors in any publications printed this year)

☐ **RUBY \$500.00** (In addition to the above, you are entitled to an image of your business card in the monthly newsletter and SDAG Website)

☐ **DIAMOND \$1,000.00** (In addition to the above, you will receive a commemorative plaque in recognition for your most generous support of the organization)

New Member / Donor ☐ Continuing Member ☐ Change of mailing address: ☐

Are you interested to serve as an officer? \_\_\_\_\_ Willing to volunteer as a guest speaker? \_\_\_\_\_

Please make check payable to **San Diego Geological Society, Inc.**, a 501(c)3 public benefit nonprofit educational corporation (in order to claim a tax deduction), and mail to:

San Diego Geological Society, Inc.  
3130 North Evergreen St.  
San Diego, California 92110 **Thank you!**

*Donations may also be made  
at monthly meetings.*

*Revised 11/18/2014*

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## ***SDAG PRESIDENT'S CORNER***

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### **Greetings SDAG Members!**

This past month we were treated to a wonderful One Stop Wonder lead by Vicki Todd and Janis Hernandez in the Mesa Grande quadrangle. Vicki and Janis have been mapping in the area for some time and have discovered some beautiful agmatites formed from the mingling of gabbroic and tonalitic magmas. Check out the photos on our website and Facebook page!

We had a huge turnout for our October meeting, where Tom Rockwell gave a presentation on the southern San Andreas fault system. It was a fascinating look at the last 30-plus years of his research in the area.

The end of the year is fast approaching, and I would like to remind everyone to renew your memberships and sponsorships. Also, we are in need of a new officer! If you have ever thought about getting more involved with SDAG, please consider running for Treasurer this year!

Please note, our Holiday meeting will be held on the SECOND WEDNESDAY in December. As is customary, Tom Demere will be speaking at the Natural History Museum.

I hope to see all of you on the field trip this weekend!

**Jennifer Bauer Morton, PG**

**SDAG President**

**geologyjen@yahoo.com**



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## **ANNOUNCEMENTS**

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# **CALL FOR PAPERS**

## **GEOHAZARDS OF NORTHERN BAJA CALIFORNIA**

**Evaluating the Effects of Geologic Hazards on the Local Landscape**

**SDAG 2016 Field Trip – October 21<sup>th</sup> through 23<sup>th</sup>**

On this field trip, we will travel south of the US-Mexico border to examine the geomorphic features related to faulting, landsliding and other erosional and mass wasting processes. If possible, we will also examine fault related features on a smaller scale in trench exposures. In addition, depending on the outcome of this year's highly anticipated El Niño, we may be able to examine the effects of the heavy rains on the local landscape. Where possible, we will look at how geotechnical engineering solutions have been employed to stabilize the local landscape.



SDAG seeks new manuscripts based on original work relating to earthquakes, faulting, landsliding, and/or any other geologic hazards that may affect Northern Baja. We also invite authors to submit articles on a broader range of topics including regional geology, structural geology, hydrogeology and groundwater resources.

### **Deadline for Abstracts: Friday, May 20<sup>th</sup>, 2016**

Please submit the following information along with abstracts:

- Title
- Author(s) and affiliation
- Address, email, and telephone numbers for the author(s)

Please submit abstracts by email to Rupert Adams at [adams@geoconinc.com](mailto:adams@geoconinc.com)





"ROCK DONATIONS NEEDED: Amy Romano, one of our former student members, is looking for rock donations. Amy is currently attending Humboldt State University and majoring in Geology. She is very involved with Humboldt's Geology Club, and every year the club holds a rock auction to support their activities. If you have any rocks to donate, please contact Amy at [ajr612@humboldt.edu](mailto:ajr612@humboldt.edu)."

# VETERAN'S GOLF FUNDRAISER

Saturday Nov. 21, 2015 @ 12:30 pm

**SUPPORT THOSE WHO HAVE SERVED**

Freedom Dogs

Veteran's Scholarship Fund



## Shotgun Start

12:30pm (Register 11:30-12:15pm)

## Price

\$149/person • \$499/foursome  
group discounts available

## Location

**ST. Mark Golf Club**

1750 San Pablo Drive  
Lake San Marcos, CA 92078

## PRIZES AND EVENTS

- FREE GOLF MEMBERSHIP
- SILENT AUCTION
- RAFFLE
- BBQ & MORE!

Limited space available.

For more info. and to sign up goto:  
[www.NorthCountyVeteransAlliance.org](http://www.NorthCountyVeteransAlliance.org)

or email:  
[info@NorthCountyVeteransAlliance.org](mailto:info@NorthCountyVeteransAlliance.org)



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.

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## ***SDAG RESEARCH TOOL***

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**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, from our first guidebook in 1972, up the San Luis Rey River in 2013, and from Coast to Cactus in 2014. 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_authors.pdf)

[http://www.sandiegogeologists.org/SDAG\\_Pubs\\_chronological.pdf](http://www.sandiegogeologists.org/SDAG_Pubs_chronological.pdf)

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THE GEOLOGICAL SOCIETY  
OF AMERICA®

The 2015 GSA Annual Meeting will be November 1 - 4, 2015  
in Baltimore, MD, at the Baltimore Convention Center

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## ***SDAG MONTHLY PHOTO COMPETITION***

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.....no submittals this month

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## ***GEOLOGY JOB OPPORTUNITIES***

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**We have several new job opportunities:**

### **Environmental Compliance Specialist**

TriEco is currently seeking an Environmental Compliance staff to provide support to Environmental Security (ES) at Marine Corps Base Camp Pendleton (MCBCP), California. Selected staff will be located at MCB Camp Pendleton and appropriate background screening will be performed for this position.

Staff will assist ES with meeting their environmental compliance oversight and reporting requirements, for all applicable Federal, state, and local statutes, regulations, ordinances and Navy/Marine Corps Orders, in accordance with the; National Environmental Policy Act (NEPA), Clean Water Act, Safe Drinking Water Act, Clean Air Act, California Code of Regulations-Titles 22 and 17, California Health and Safety Code, state and county water authorities, county Air Pollution Control District (APCD) and Air Quality Management District (AQMD), MCBCP permits and compliance plans.

The primary responsibilities of the candidate will be to provide Stormwater and Wastewater compliance support by obtaining the necessary data to conduct thorough technical content reviews, permit application preparation, standard operating procedure development, compliance assessments, and regulatory reporting. The candidate will develop management plans, policies, training materials, presentations, permit application packages, and Standard Operating Procedures. The candidate will also conduct research, assist with site compliance, maintain documentation for regulatory reporting, and review National Environmental Planning Act (NEPA) planning documents for compliance.

Qualifications:

A minimum of 3-5 years of related Environmental Compliance experience is required with an emphasis in Stormwater and Wastewater programs. A minimum of 5 years of Department of Defense Environmental Compliance experience is preferred.

The minimum requirements for this position include a bachelor's degree in environmental engineering or geology, or a related field.

This position requires selected candidate to possess U.S. citizenship and you must to be able to pass a background check and obtain and maintain government security clearance.

No field work is anticipated, however site visits across the Base will be conducted. Occasional travel may be required. Selected candidate will be located on MCBCP for the duration of employment. Office will be at the Environmental office at MCBCP. Candidate will be required to drive regularly.

You must be able to exert up to 20 lbs. of force occasionally, and/or up to 10 lbs. of force frequently, and/or a negligible amount of force constantly to move objects. Be able to survey sites which may be undeveloped, or of uneven topography.

We thank all applicants for their interest; however only those selected for an interview will be contacted. TriEco is committed to creating a diverse environment and is proud to be an Equal Opportunity Employer. We invite resumes from all interested parties including women, minorities, veterans and persons with disabilities.

To apply, follow this link:

[https://www.linkedin.com/jobs2/view/93607759?trk=vsrp\\_jobs\\_res\\_name&trkInfo=VSRPsearchId%3A1392392521445445265174%2CVSRPtargetId%3A93607759%2CVSRPcmpt%3Aprimary](https://www.linkedin.com/jobs2/view/93607759?trk=vsrp_jobs_res_name&trkInfo=VSRPsearchId%3A1392392521445445265174%2CVSRPtargetId%3A93607759%2CVSRPcmpt%3Aprimary)

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### **Paleontology Collection Assistant**

The San Diego Natural History Museum is operated by the San Diego Society of Natural History, a private non-profit scientific organization incorporated in 1874. The Museum's mission is to interpret the natural world through research, education and exhibits; to promote understanding of the evolution and diversity of Southern California and the peninsula of Baja California; and to inspire in all a respect for nature and the environment. Within the Museum, the Department of Paleontology specializes in managing over 1.5 million specimens as well as engaging in and facilitating collections-based research of fossil vertebrates, invertebrates, and plants collected primarily from Late Mesozoic- through Cenozoic-aged sites in southern California and northern Baja California, Mexico.

#### **Position Summary:**

The Paleontology Collections Assistant will improve the digital data associated with SDNHM fossil specimens and fossil collection localities as part of a grant funded, Institute of Museum and Library Services (IMLS) Collections Stewardship project.

#### **Primary Functions and Major Responsibilities:**

The Paleontology Collections Assistant will use a geographic information system (GIS) to locate and georeference fossil collection localities and compile locality reports for uncatalogued specimens from southern California, USA and Baja California, Mexico. Responsibilities will also include database entry of locality and



specimen data for uncatalogued specimens. Managing these digital data for fossils will extend to capturing digital images of specimens and associating the photographs to the specimen database.

**Duties Include:**

- Learning and using the department's GIS, which employs ESRI's ArcGIS
- Reviewing existing information for uncatalogued SDNHM fossils from Baja California in notes and paper maps, and creating and georeferencing new localities.
- Preparing locality reports based on existing locality and stratigraphic data from field books and hand-written locality forms.
- Entering new locality data into the paleontology collection database.
- Assisting in the curation and cataloging of fossil specimens from southern California and Baja California.
- Helping to develop protocols for capturing digital images of selected fossils.
- Digitally photographing fossils, editing images in Adobe Photoshop, and associating images with specimen records in the paleontology collection database.
- Other duties as assigned.

**Qualifications:**

- Bachelor of Science in geology or related field
- Academic emphasis in paleontology, sedimentary geology, or geographic information systems
- Background using USGS 7.5 minute topographic maps
- Strong verbal and communication skills, including scientific writing
- Proven organizational skills and attention to detail
- Experience using Microsoft Excel and Word, and Adobe Photoshop
- Familiarity with digital cameras and photography
- Ability to lift up to 50 pounds

**Compensation:**

This is a full time, temporary, 1 year position, beginning January of 2016 with a rate of pay of \$19.00 per hour and a generous benefits package.

To apply please submit resume, cover letter outlining your experience, and three professional references to [hr@sdnhm.org](mailto:hr@sdnhm.org). Please include the following in the subject line of your email "PCA Application- YOUR LAST NAME.FIRST INITIAL" (example: PCA Application-Smith. P.) No phone calls or drop ins please.

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## **Invertebrate Paleontologist**

The San Diego Natural History Museum is operated by the San Diego Society of Natural History, a private non-profit scientific organization incorporated in 1874. The Museum's mission is to interpret the natural world through research, education and exhibits; to promote understanding of the evolution and diversity of Southern California and the peninsula of Baja California; and to inspire in all a respect for nature and the environment. Within the Museum, the Department of Paleontology specializes in managing over 1.5 million specimens as well as engaging in and facilitating collections-based research of fossil vertebrates, invertebrates, and plants collected primarily from Late Mesozoic- through Cenozoic-aged sites in southern California and northern Baja California, Mexico.

### **Position Summary:**

The Invertebrate Paleontologist will increase the scientific significance of the SDNHM paleontology collection by applying his/her knowledge of marine invertebrate taxonomy to curate uncatalogued Baja California, Mexico fossil invertebrates as part of a grant funded, Institute of Museum and Library Services (IMLS) Collections Stewardship project.

### **Primary Functions and Major Responsibilities:**

The Invertebrate Paleontologist will curate (identify, organize, and database) marine invertebrate fossils from Baja California, Mexico. The collections are mostly restricted to marine Cenozoic, molluscan faunas of the northeastern Pacific region. The successful candidate will need to be familiar with molluscan taxonomy and be experienced with using appropriate library and internet references to assist in taxonomic identification.

### **Duties Include:**

- Identifying marine invertebrate fossils from Baja California and utilizing relevant resources to assist in taxonomic identification.
- Using geological maps and literature of Baja California to become acquainted with relevant sedimentary rock units.
- Assisting collection managers with compiling and databasing SDNHM Baja California fossil localities.
- Becoming familiar with department procedures for curating fossils.
- Learning and becoming proficient with the department's current collection data entry program (dbaseIII) and future collection data entry program (Specify).
- Working with the curator, collections managers, and other department staff to produce a quality curation product.
- Other duties as assigned.

**Qualifications:**

- Bachelor of Science in geology, biology, or related field
- Masters of Science.S. preferred
- Academic emphasis in paleontology, sedimentary geology, or marine invertebrate biology
- Background in marine Cenozoic molluscan taxonomy of the northeastern Pacific region
- Experience working in a museum paleontology department
- Strong verbal and communication skills, including scientific writing
- Proven organizational ability and attention to detail
- Experience using Microsoft Excel and Word, and Adobe Photoshop
- Ability to lift up to 50 pounds

**Compensation:**

This is a full time, temporary, approximately 1/2 year position, beginning in late Spring of 2016 with a rate of pay of \$21.00 per hour and a generous benefits package.

To apply please submit resume, cover letter outlining your experience, and three professional references to [hr@sdnhm.org](mailto:hr@sdnhm.org). Please include the following in the subject line of your email "IP Application- YOUR LAST NAME.FIRST INITIAL" (example: IP Application-Smith. P.) No phone calls or drop ins please.

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## ***Geology Job Seekers***

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**We have heard from many upcoming geologists at our recent meetings, all of whom are seeking work opportunities here in San Diego. Included herein, in no particular order, are bio's and contact information of our members looking to gain a foothold in the local professional community:**

**SENIOR GEOLOGIST** - Bilingual English and Spanish speaker with 12 years of experience in geological, geotechnical, and hydrogeological investigations for civil projects such as highways, railway lines, dumping sites, dams and residential buildings. A postgraduate specifically trained in environmental management and groundwater hydrology. Skilled in site management, drilling campaigns, and supervision of geotechnical laboratory and site tests.

Detailed work experience, education, and recommendations at <http://www.linkedin.com/in/sergiopostigo/>. Email [sergiopostigo@yahoo.com](mailto:sergiopostigo@yahoo.com) or call Sergio Postigo at 619-450-3642

This is Farida Baxamusa, MS- Earth Science from Scripps Institution Of Oceanography (SIO), University of California, San Diego (UCSD). I am originally from India, and have another Master's in Earth Sciences from St. Xavier's College, University of Mumbai, India. I have also been granted the Dr. Ratan Nadirshaw Sukeshwala and

Dr. Dayanand Dattatraya Yellur scholarship for securing highest rank in Earth Science at MS Part I and Part II. After completing my MS in India, I secured an internship at Oil and Natural Gas Corporation (ONGC), Mumbai, India. Later I worked as an Earth Science lecturer at St. Xavier's College, University of Mumbai, India where I held classes, directed discussions among large groups ranging from 35 to 80 students on mineralogy, petrology, geochemistry, crystallography, economic geology, oceanography, and plate tectonics and led lab courses involving mapping, stratigraphy, and paleontology. In September of 2013, I was accepted at SIO, UCSD for a master's program. Dr. Lisa Tauxe was my advisor and I worked as a research assistant under her in the field of paleomagnetism. I worked in the paleomagnetism laboratory where I skillfully selected quenched rock materials from lava flow samples to obtain accurate estimates of the Earth's magnetic field intensities. I developed python scripts to analyze individual samples to obtain their paleointensity values. I also worked as a teaching assistant for a year where I assisted teaching undergraduates introductory geology and Earth processes, collaborated with other teaching assistants and professors to aid in conducting an introductory course about hydrologic processes on Earth and held office hours, tutored students, proctored and graded exams. Around the time of completion of my degree I presented my year's research to the faculty members of the Geoscience Research Division (GRD) and qualified for my MS in Earth Science and graduated in September of 2014. I am currently doing 3 part time jobs, one as a Staff Research Associate at SIO, the other as a Staff scientist at the Bodhi Group where I perform phase I site assessments, and the third as a geology education website volunteer at California Coastal Commission Public Education Department, CA. I am now actively looking for a job in environmental consultancy firms or educational institutions. I believe that I have a varied background and education and the perseverance and grit in achieving excellence in everything I do. If you have any advice, jobs, internships please feel free to contact me at fbaxamus@ucsd.edu or call me on 858-397-8456. Your help and guidance will be highly appreciated.

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## ***REQUEST for 2015 SDAG/SDGS and PUBLICATION SPONSORS***

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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.



**HARGIS+ASSOCIATES, INC.**  
HYDROGEOLOGY • ENGINEERING

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

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

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

*Contact: Dr. David R. Hargis*



## Mobile Geochemistry Inc.

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

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

*Contact: Louise Adams or Suzie Nawikas*



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complex world | **CLEAR SOLUTIONS™**

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*




*Contact: Rupert Adams, CEG*

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

[www.geoconinc.com](http://www.geoconinc.com) / [Facebook](#) / [LinkedIn](#)

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