

SAN DIEGO ASSOCIATION OF GEOLOGISTS

www.sandiegogeologists.org

SDAG MEETING ANNOUNCEMENT

WEDNESDAY, FEBRUARY 17, 2016

Surf, Sand, and Stone:
How Waves, Earthquakes, and Other Forces Shape the
Southern California Coast

Presented by:
Dr. Keith Meldahl

- Where:** **Green Dragon Tavern & Museum**
6115 Paseo del Norte, Carlsbad, 92011 (See Map)
- When:** 5:30 pm - Social Hour
6:30 pm - Dinner
7:30 pm - Program
- Directions:** FROM INTERSTATE 5: Exit at Palomar Airport Road. Turn right. Take the next right onto Paseo del Norte. The restaurant is located just past the Taco Bell on the right hand side.
- Dinner:** Lemon-Herb Chicken or Vegetable Primavera Pasta. Includes Caesar salad, roasted red potatoes, green beans with garlic sundried tomato butter, coffee, iced tea, and chocolate mousse for dessert. 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 **no later than noon, Monday February 15th**. Reservations cannot be guaranteed after Monday at noon; but are always preferred over walk ins. Reservations well before the deadline are MUCH appreciated.

Map:



ABSTRACT

Surf, Sand, and Stone:

How Waves, Earthquakes, and Other Forces Shape the Southern California Coast

Presented by: **Dr. Keith Meldahl**

Southern California is sandwiched between two tectonic plates—the Pacific and North American plates—that grind right-laterally past one another. During the transition from a former subduction boundary to today's transform boundary, the Pacific Plate captured large portions of crust that once belonged to the North American Plate. The transfer of this kidnapped crust from one plate to the other created much of the fault-shattered geology we see today. This process is ongoing, and earthquakes and tsunamis are expected consequences.

In recent geologic time, sea level changes triggered by Pleistocene glacial-interglacial cycles have profoundly shaped the coast. The up-down yo-yoing of sea carved and filled rivers valleys to form coastal lagoons, and hacked flight-of-stair-like marine terraces into tectonically rising blocks of coastal bedrock.

Humans have now become a geologic force along the coast. Constructions such as river dams, seawalls, and jetties have put many local beaches into sand deficits, necessitating artificial replenishment to maintain beach size and reduce bluff erosion. The reservoirs of some Southern California river dams are now so sediment-clogged that they serve no water storage purpose; yet the dams still block sand from reaching downstream beaches. Seawalls, built to hold the line against bluff erosion, deny a basic geologic reality: our coastal bluffs exist because of hundreds of feet of natural landward retreat that dates back to the rise of sea level after the Last Glacial Maximum.

Surfing is Southern California's iconic sport, thanks in part to three major Pacific storm centers that send ocean swells here at different times of year. Offshore islands and banks dampen arriving swells, creating swell shadows on some parts of the mainland, while opening swell windows in other areas. Southern California's most famous surf spots, such as Cortes Bank, Black's Beach, Trestles, Malibu, and Rincon Point, exist because of the way that seabed topography bends and focuses the energy of arriving swells to create high-quality surfing waves.

Surf, Sand, and Stone is a book for non-specialists interested in the geologic and oceanographic processes that have created the Southern California coastline. Copies of the book will be available for sale at the meeting.

SPEAKER BIO

Keith Meldahl is a professor of geology and oceanography at Mira Costa College, where he has taught since 1997. He is the author of two popular books about the geology of the western US, *Hard Road West* (University of Chicago Press, 2007) and *Rough-Hewn Land* (University of California Press, 2011). Keith earned his BA in geology from the University of Chicago (1983) and his MS (1986) and PhD (1990) in geology from the University of Arizona. For fun, he plays guitar in a classic rock band, and enjoys bodysurfing, camping, and exploring outdoors.

UPCOMING MEETINGS

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.

March 16, 2016	Diana Lindsey – The Geology of a Portion of Africa
April 20, 2016	SDAG Student Scholarship Presentations
May 18, 2016	Gulf of California Coastal Ecology and Geology: Insights from the Present and Patterns from the Past

2016 SDAG EXECUTIVE COMMITTEE

PRESIDENT - Randy Wagner; Ph: (760) 877-3490 randallwagner@live.com

VICE PRESIDENT - Rupert Adams, rsa_sdag@geoconinc.com

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

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

SDAG PRESIDENT'S CORNER

Greetings SDAG Members!

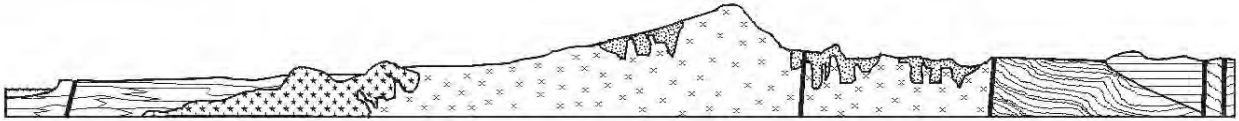
The year has gotten off to a wonderful start. Hopefully everyone is staying busy and work/school/retirement is going well.

A big thanks to Mike Hart for presenting his talk "Reconnaissance of Long Run-Out Rock Avalanches of Eastern California" on short notice when the scheduled speaker was unable to make the January meeting.

The year has gotten off to a quick start with two OSW's (One Stop Wonders) in January and another one on February 6th. The Saturday February 6th OSW will be at La Jolla Cove and is being coordinated by Rob Hawk. Details to follow shortly. The first OSW was held on January 9th and included a somewhat challenging 6-mile hike in the western Coyote Mountains attended by 37 people. The hike ended up taking most of the day due to the awesome geology in a part of the desert rarely visited by humans. Thanks to Dr. Ann Bykerk-Kauffman for leading the trip. The second OSW was held on January 23rd. Approximately 25 people visited the Jamul Portland Cement mine in the Jamul Ecological Reserve that is normally closed to the public. Thanks to Mike Hart for getting permission for us to visit the site of the old mine.

I welcome any feedback, input, or suggestions from our membership. Lastly, I wish you all a successful new year and hope to see you at the upcoming meetings in 2016 and beyond!

Randy Wagner
2016 SDAG President



SAN DIEGO ASSOCIATION OF GEOLOGISTS

www.sandiegogeologists.org

2016 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 \$ _____

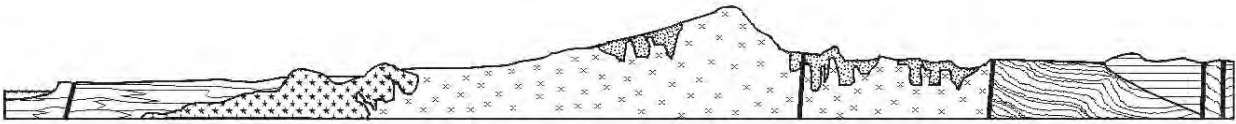
☐ New/Returning Member ☐ Continuing Member

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 2016 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: _____

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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 11/18/2015

ANNOUNCEMENTS

CALL FOR PAPERS

GEOHAZARDS OF NORTHERN BAJA CALIFORNIA

Evaluating the Effects of Geologic Hazards on the Local Landscape

SDAG 2016 Field Trip – October 21th through 23th

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 20th, 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



"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.

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.

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, 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_chronological.pdf



THE GEOLOGICAL SOCIETY
OF AMERICA®

The 2015 GSA Annual Meeting will be September 25 - 28, 2016
in Denver, Colorado

SDAG MONTHLY PHOTO COMPETITION

This month's submittal originated from Chris Livesey, our esteemed Secretary. The photo is an example of how geology should be proudly displayed: held up high on a hilltop pedestal with a view and wrapped in architecture (minus the wire lines). Early settlers were bewildered on how the rounded rock (in the gazebo) would rock with a touch of a finger. Thus coining the phrase Rocking Stones. Now that you know a little background, have you been there? Find out where this Rocking Stone is displayed at the February meeting! Submit your photo via email to the SDAG secretary for entry.



GEOLOGY JOB OPPORTUNITIES

We have several new job opportunities:

Thomas Harder & Co

Position and Description of Responsibilities:

Staff Geoscientist Opening: Thomas Harder & Co (TH&Co) is accepting applications for a new Staff Geoscientist. TH&Co is a groundwater consulting firm based in Anaheim, CA. This entry-level position is full-time and will start as early as Mid-January. The applicant must have a bachelor's degree in geology. Courses in GIS and hydrogeology are a plus. Duties will include field inspection at well drilling sites and hydrogeological data compilation and analysis.

Resumes may be submitted via email to:

[Ben Lewis blewis@thomashardercompany.com](mailto:Ben.Lewis@thomashardercompany.com)

Geocon

Certified Engineering Geologist, Orange County, California

Geocon has an immediate opportunity for a highly motivated geologist to work on a wide variety of engineering geology projects based out of our office in Irvine, Orange County. The ideal candidate will have experience performing a wide variety of geotechnical investigations for public and private sector clients, supervising rough grading operations for large-scale land development projects, and be proficient in utilizing field data to characterize and solve complex engineering geologic problems. Flexibility to travel, ability to work simultaneously on multiple projects, willingness to learn new skills, and a commitment to workplace health and safety while maintaining a positive attitude is desired.

Responsibilities:

- Prepare project proposals and budgets and coordinate staff scheduling
- Plan, coordinate, and conduct geotechnical investigations
- Collate, analyze, and present project geologic data, including the preparation of trench and boring logs, geologic maps and cross-sections, fault trench logs, and interpretation of historical stereographic aerial photographs
- Perform construction documentation during grading projects, including field mapping of cut slopes and other excavations
- Identify/evaluate geologic conditions impacting project design, construction and/or long-term performance of engineered structures
- Coordinate the collection of field samples and assignment of laboratory testing
- Prepare project geotechnical reports
- Review project plans, specifications, and related documents

- Attend meetings with clients, contractors, and project staff as-needed

Requirements:

- Bachelor's or Master's Degree in Geology or Engineering Geology (graduate level education preferred)
- Professional California Registration as a Certified Engineering Geologist required
- A minimum of 5-plus years of relevant work experience
- Knowledge of complex structural geology, ability to recognize geologic hazards, and experience in evaluating the impacts of slope instability and landsliding on land development.
- Experience in a variety of subsurface investigation techniques, including downhole logging of large diameter borings
- Excellent verbal and written communication skills
- Ability to work both independently and as the member of a professional team to accomplish project goals
- Valid California driver's license

Geocon is an Equal Opportunity Employer committed to retaining talented staff; therefore, we offer competitive market wages and extensive benefits to our full-time employees. We have established a variety of employee benefit programs designed to assist our employees and their dependents in meeting financial requirements that can result from illness and disability as well as assist in planning for their retirement. Our benefits package includes medical insurance, vacation and sick leave, bereavement leave, family leave, medical and pregnancy leave, life insurance, short-term and long-term disability insurance, and a profit sharing program. We practice same-week reimbursements for mileage and expenses as well as flexible work hours to accommodate employees' needs. Most of our employees have been with the company for over five years, and the majority for over ten to twenty years. Come work for a company that truly values its employees and offers an energetic work environment, great benefits, pleasant office dynamics, no corporate red tape, flexible work hours, and the opportunity to advance in your career!

Benefits and salary based on experience

For consideration, please e-mail resume to Rupert Adams at adams@geoconinc.com

Klondex

Junior Geologist (Ore Control) - Fire Creek Mine

Proficient in all aspects of mine geology work required to safely and efficiently mine, narrow vein, gold and silver deposits hosted in Tertiary volcanic rock. This includes participating in weekly safety meetings, daily underground ore control, channel sampling, Qa/Qc, geologic mapping/digitizing, production core logging and geologic modeling in Vulcan. Collects and analyzes underground geological data and acts as a liaison with mine operations. Bachelor's Degree in Geology or Geological Engineering required with an M.S. preferred. Entry-level graduate to 4 years of experience in the

mining industry, with narrow vein experience preferred. Mine software experience required, Vulcan preferred.

Interested geologists can respond by sending their resumes to:

careers@klondexmines.com

San Diego Natural History Museum

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. 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.

San Diego Natural History Museum

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. 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.

Geology Institutions

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:

Maxwell Clayton Utter

| mu47@nau.edu | cell: 858-663-9580|

Education

Education Level: Undergraduate Student 80 Credit Hours

Education Institution: Northern Arizona University

Majors: Environmental Sciences and Geology

College GPA: 3.46

SAT Score: 1850 690 Math, 630 Critical Reading, 520 Writing

Academic and Related Awards

Northern Arizona University

- | | |
|---|------------------|
| • Northern Arizona University Dean's List | 2013, 2014, 2015 |
| • Delta Epsilon Iota Honor Society Member | Nov 2014 |
| • National Society of Leadership and Success Member | Oct 2014 |
| • National Society of Collegiate Scholars Member | |
| "For exemplary academic performance" | May 2014 |
| • Cardinal Key Honor Society Nominee | Aug 2014 |
| • Blue Key Honor Society Nominee | Nov 2014 |

Del Norte High School

- | | |
|--|------------|
| • Nighthawk Scholar | |
| "For achieving a GPA of 4.0 or greater" | 2012, 2013 |
| • Principals Honor List | |
| "For achieving a GPA of 3.75 or greater" | 2012 |
| • Del Norte High School Certificate of Merit | |
| "For exceptional merit in academics" | Mar 2011 |
| • Mensa Member | Oct 2010 |

Oak Valley Middle School

- Science Olympiad 1st Place in Meteorology San Diego County Feb 2009
- Science Olympiad 3rd place in Meteorology State of California Apr 2009

Leadership

- Northern Arizona University Geology Club President 2014-present
- Delta Epsilon Iota Honor Society Treasurer Jan 2015-Aug 2015

Work Experience

- Northern Arizona University REDD+ Research Assistant Dec 2014- Mar 2015
- Teaching Assistant Northern Arizona University Chemistry 151 Aug 2014- Dec 2014
- Teaching Assistant Black Mountain Academy Aug 2014
- Habitat Restoration: San Diego Botanical Gardens Jun 2014- Aug 2014
- Landscaper Jun 2008 to Aug 2013

Volunteer Service

- Water Sampling Studies For Reintroduction of Native Species Jan 2010- Jun 2015
- Stone Ranch Elementary Science Fair Judge Feb 2011, Feb 2012
- Boy Scout Beach Cleanup Aug 2012
- 4S Ranch Autism Walk Founder Jan 2008- May 2013
Raised over \$10,000 for children with Autism
- Best Buddies- Event organizer Aug 2009- May 2013
- Facilitator- Special Education Basketball League Jan 2013- Jan 2015
- Bread of Life Homeless Facility Oceanside CA Aug 2011
- Home of Guiding Hands Building Renovation Jan 2011
- UCSD Brain Function Study Jan 2009

Extra-curricular Awards

- Autism Society of America Autism Angel Award Jan 2013
"For extraordinary service to the special needs community"

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 Sureshwala 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.

REQUEST for 2015 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 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



TETRA TECH

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

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Orange County / Bakersfield / Bay Area / Fairfield / Sacramento



Contact: Brian Olson

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