

SAN DIEGO ASSOCIATION OF GEOLOGISTS

www.sandiegogeologists.org

SDAG MEETING ANNOUNCEMENTS

WEDNESDAY, AUGUST 19, 2015

TECTONIC GEOMORPHIC AND PALEOSEISMIC INVESTIGATIONS FOR THE PANAMA CANAL

Presented by:
Eldon Gath

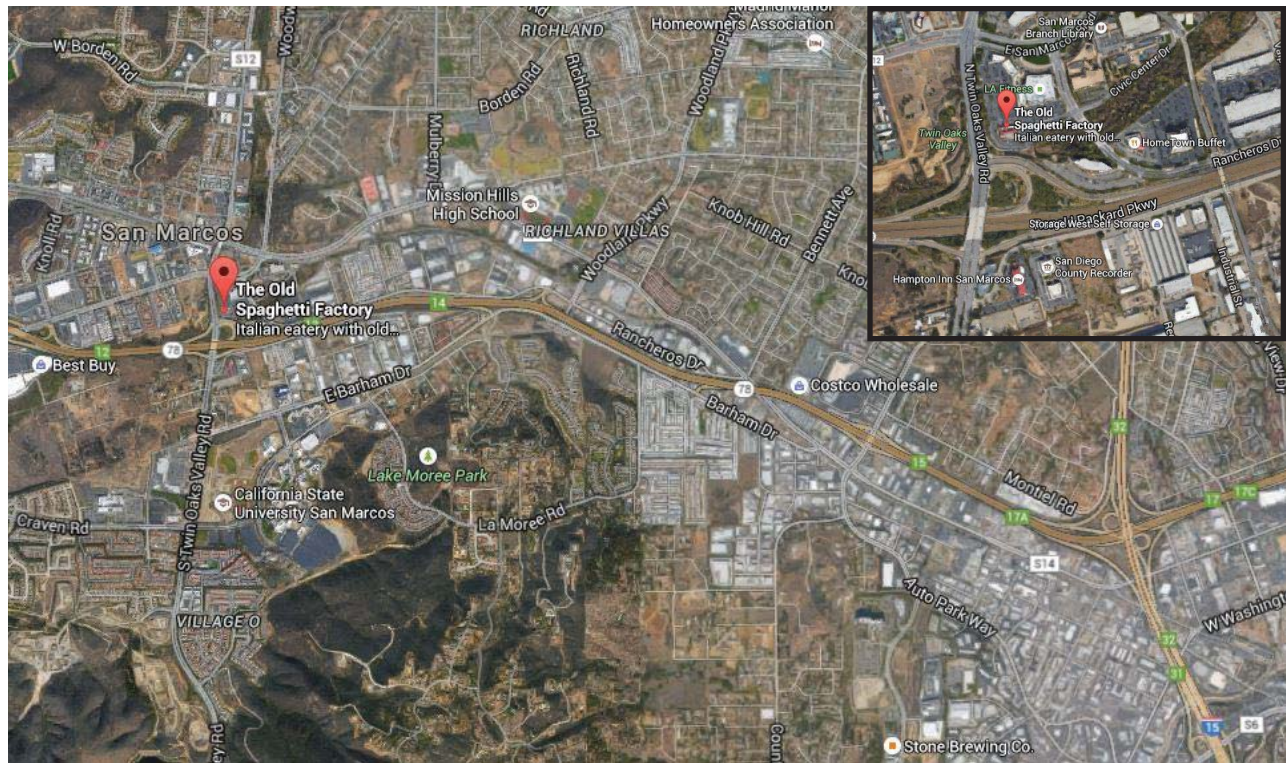
Where: The Old Spaghetti Factory
111 North Twin Oaks Valley Road
San Marcos, CA 92069
Tel: 760-471-0155

Directions: FROM INTERSTATE 5 or 15: Head east or west respectively and take the TWIN OAKS VALLEY ROAD exit. Proceed north and turn right into the LA Fitness parking lot. The restaurant is located in the southwest corner of the lot.

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

Dinner: Meatball spaghetti, Spinach Ravioli or Chicken Fettuccine Alfredo. Cash bar
Coffee, tea, iced tea, and milk are included.

Cost: \$25 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 August 17th**. Reservations cannot be guaranteed after Monday at noon; but are always preferred over walk ins. Reservations well before the deadline are MUCH appreciated.

ABSTRACT

Tectonic Geomorphic and Paleoseismic Investigations for the Panama Canal

This talk summarizes five years of geological exploration in Panama to quantify the fault hazards to the Panama Canal and the Canal Expansion Project, using tectonic geomorphic mapping and analysis, paleoseismic trenching, and seismic hazard analysis. Faults that were investigated include the Gatún, Limón, Azota, Pedro Miguel, Miraflores, and Agua Blanca. The talk will illustrate techniques of field reconnaissance, trench site selection, 3-D trenching of strike slip faults, and how to assemble into a seismic hazard model. If extra time is available, an overview of the Panama Canal and the Canal Expansion Project can also be presented.

SPEAKER BIO



**ASSOCIATION OF
ENVIRONMENTAL &
ENGINEERING GEOLOGISTS**



**ENVIRONMENTAL & ENGINEERING
GEOLOGY DIVISION**
Geological Society of America

Eldon Gath

2014-2015 Richard H. Jahns Distinguished Lecturer in Applied Geology

Eldon, a consulting engineering geologist, has more than 30 years of experience in the identification, investigation, and remediation of geologic hazards, involving land use planning, environmental assessments, field exploration programs, and presentation of findings. He has particular experience with the evaluation of active faults for construction site planning, the development of seismic safety programs and policies, and is currently engaged in efforts to modernize California's 40-year old active fault zoning act (Alquist-Priolo Earthquake Fault Zoning Act).

Eldon is the President of Earth Consultants International, a geological consulting firm *[helping our clients solve complex earth-science problems around the world]* that he co-founded in 1997, following 12 years with Leighton Consulting in southern California. He has considerable international experience including field projects in Turkey, Panama, Mexico, Costa Rica and Papua New Guinea, as well as project involvement in many others.

Eldon is a graduate of the University of Minnesota, Institute of Technology, with a BS degree in Geology in 1978. He has been in graduate school ever since; MS program at Cal State LA (1982-1990), PhD program at UC Riverside (1993-1996), PhD program at UC Irvine (1998-2008), but despite getting very close, he has never managed to complete the degree due to his busy consulting responsibilities, professional organization involvement, and travel schedules; or conflicted priorities, if you ask his advisors.

Eldon has received several research grants from the U.S. Geological Survey's National Earthquake Hazard Research Program, the Southern California Earthquake Center, and the National Science Foundation for earthquake geology research in California, including paleoseismology of the Whittier fault, tectonic development of the San Joaquin Hills, tectonic geomorphology of the Eastern Los Angeles Basin, and the seismic hazards of the Santa Ana Mountains. He served as the geosciences member on a National Research Council panel to develop the research agenda for the NEES program, he served on the LA County Land Development Technical Advisory Committee for a decade, served on the California Board for Engineering, Land Surveyors and Geologists' Technical Advisory Committee for two years, and has participated multiple times as an Occupational Expert for the US Department of Labor.

Eldon is a frequently invited speaker to local southern California colleges. Since his first professional presentation on the Whittier fault at AGU in 1987, he has given over one hundred presentations before

professional, academic, and public groups, and has published dozens of papers on a wide range of geological and professional practice topics, several of which have received awards for outstanding presentations and papers.

In 1995 he was awarded the Aki Award for Outstanding Paper Presentation at the California Academy of Sciences Annual Meeting for *Active tectonic structures in the eastern Los Angeles basin*, then in 2007 received the Outstanding Presentation Award at the AAPG Annual Meeting for *Quaternary geomorphic development and seismic hazards of Orange County, California*. Along with coauthors, he has received the 2010 GSA E.B. Burwell Outstanding Paper Award for *The Geology of Los Angeles*, and the 2012 AEG Claire P. Holdredge Outstanding Paper Award for *Paleoseismology of the Pedro Miguel fault, Panama Canal*. He served as South Coast Geological Society (SCGS) President in 1987, AEG Southern California Section Chair from 1990-1992, AEG Treasurer, Vice President, and President from 1993-1997, received the AEG Floyd T. Johnston Service Award in 2008, was elected a Fellow by GSA in 2011, and was made an Honorary Member of the SCGS in 2012. He is a member of AEG, GSA, AIPG, AAPG, EERI, IAEG, IAPG, AAAS, AGU, SSA, PDAC, and all local geological societies.

Eldon Gath

President

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www.earthconsultants.com



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.

September 16, 2015 (WEDNESDAY)	Mark Legg – The Continental Borderland
October	Tom Rockwell – Coyote Mountains
November	Nicholas Clapp – Lost City of Ubar

2015 SDAG EXECUTIVE COMMITTEE

PRESIDENT – Jennifer Bauer Morton; geologyjen@yahoo.com

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

SECRETARY –Rupert Adams, rsa_sdag@geoconinc.com

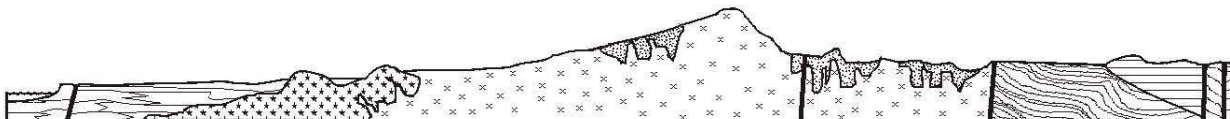
TREASURER – Chris Livesey, liveseychris@yahoo.com

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llindsay@sunbeltpub.com

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

2015 SDAG MEMBERSHIP

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.sandiegoeologists.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 \$ _____

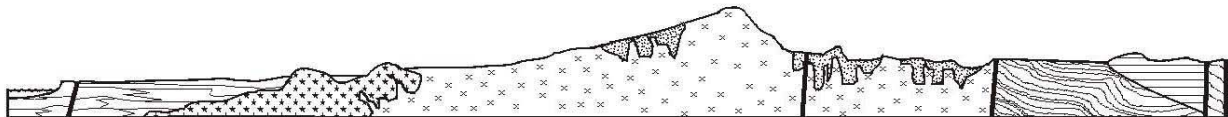
☐ New/Returning Member ☐ Continuing Member

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

SDAG PRESIDENT'S CORNER

Greetings SDAG Members!

I cannot believe my tenure as President is more than half over! It has been a fun year so far, and we have some fantastic speakers lined up for the remainder!

Thank you to Dr. Neal Hitch for venturing all the way from the Imperial Valley Desert Museum for our July meeting, and for filling in on short notice! Dr. Hitch gave an informative presentation on the current status of the IVDM and also discussed the Coyote Mountains – a nice preview to our upcoming field trip. The IVDM is a wonderful museum in Ocotillo – I highly recommend stopping in if you are out in the area, or happen to be passing by on a road trip. Geology plays a big role in their exhibits.

For the next two months our meetings will be held in North County, much to the liking of the executive committee who all live up this way! We will be heading back to the Old Spaghetti Factory in August, and in September we will check out a new location, the Green Dragon Tavern and Museum in Carlsbad. I think you will all enjoy it. I hope to see some more North County members at our upcoming meetings!

I'd like to invite any comments or suggestions from our membership. If any of you have any input on how to make our organization or meetings even better, please let me know! I'd love to hear your ideas. Please email me at the address below.

I'd also like to remind all of you that SDAG has a Facebook page. Please "Like" it and please post any interesting geology articles, job notifications, geo-photos, etc.

I look forward to seeing all of you at the Spaghetti Factory!

Jennifer Bauer Morton, PG
SDAG President
geologyjen@yahoo.com

ANNOUNCEMENTS

CELEBRATING THE LIFE OF DR. DAVID HUNTLEY

Saturday, August 8, 2:00 pm – 5:00 pm

La Jolla Cove Bridge Club
1160 Coast Blvd, La Jolla, CA 92037



In keeping with Dave's spirit and attitude toward life, Hawaiian attire is suggested.

Please bring your stories and memorabilia to share. There is so much material... where to begin?

Mahalo!



SDAG 2015 FIELD TRIP

“Western Salton Trough Regional Tectonics, Coyote Mountains and Vicinity”

November 6-8, 2015

On this field trip we will explore the complex geologic history of the western Salton Trough as expressed in the Coyote Mountains north of Ocotillo. Paleozoic miogeoclinal metamorphic rocks, coarse-grained Mesozoic intrusive rocks, and Cenozoic sedimentary rocks and fanglomerates have been deformed by major faulting. Complex structure challenges interpretation. We seek to examine revealing outcrops that help to illustrate the stratigraphy, structure, and regional geology in this area. We will also consider the mineral potential, tectonics of the region, and resulting landforms.

Registration paperwork providing additional fieldtrip information is forthcoming and should be available at the end of July. Stay tuned!

If you have any questions, call or e-mail to Randy Wagner: randallwagner@live.com (760) 877-3490

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

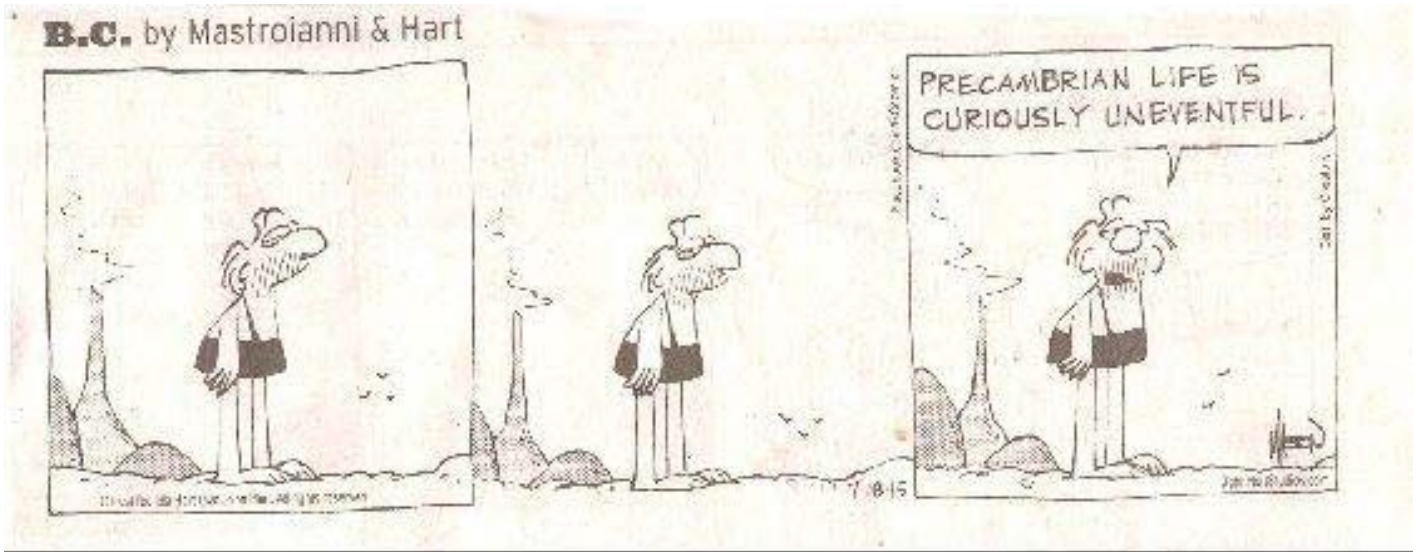
http://www.sandiegogeologists.org/SDAG_Pubs_chronological.pdf



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

SDAG MONTHLY PHOTO COMPETITION

This month's submission comes from Mike Hart and myself!



Just a reminder to all those of us who work around heavy equipment! This occurred recently during a canyon cleanout where the side slopes were only about five to six feet high, inclined at approximately 2:1 (H:V). The driver was wearing his seat belt and was not hurt....I had walked down this canyon not long before the incident occurred.

Geology Job Opportunities

We have some new job opportunities:

Environmental Engineer/Scientist

IO Environmental and Infrastructure is currently hiring for a Junior Engineer/Geologist in our San Diego location. Candidates must have a bachelor's degree in geology, engineering, environmental science or related field. We have several full time positions for individuals possessing 0 to 5 years of experience working on environmental remediation and consulting projects.

The successful candidate will have experience in performing multimedia field sampling, soil borings and well installation, remediation system O&M, remedial excavation oversight, data logging, environmental document preparation and review, project tracking, and project task management. Candidates will benefit from having 40-hour HAZWOPER training and familiarity with applicable regulations including CERCLA, RCRA, RWQCB, and DTSC. Candidates must demonstrate an ability to work independently and to develop successful business relationships with colleagues and clients and ability to identify new project opportunities. Must be flexible, willing to travel, and be available to work in the field. Candidates that possess excellent technical writing skills are preferred. Candidates must be able to provide written work examples upon request, and be highly proficient with MS Office applications.

IO Environmental & Infrastructure, Inc. (IOEI) is a service-disabled veteran-owned small business established in 2006. We highly encourage veterans and diversity candidates to apply. Please send resumes with an e-mail cover letter discussing how your qualifications meet the requirements of this position to resumes@iosdv.com.

Environmental Engineer/Geologist Senior Project (PROGRAM) Manager

This is a full time position for a professional engineer and/or geologist with 10-15 years of experience including Federal and Commercial environmental remediation and consulting to include, project estimating, client relations, staff management, environmental document preparation and review, project tracking, budgeting, and cost forecasting, and project task management.

Must have a PG in Geology or a PE in relevant Engineering field (Civil, Environmental, Chemical, Geotechnical, etc.).

Must possess excellent management, communication and technical writing skills. Must provide written work examples upon request, and be highly proficient with MS Office applications. AutoCAD and GIS software capabilities are also desired.

Must possess understanding of contracts, insurance, bonding, and other procedural administrative projects documents.

Must have 40-hour HAZWOPER training and at least 10 years of relevant experience with federal government projects (Navy and USACE preferred). Must be familiar with applicable regulations including CERCLA, RCRA, RWQCB, and DTSC with experience writing reports subjected to regulatory review.

Work experience must demonstrate an ability to work independently and to develop successful business relationships with colleagues and clients and ability to identify new project opportunities.

Must be flexible, willing to travel, familiar with cost estimating, proposal preparation, and able to manage multiple assignments concurrently.

Please send resumes with an e-mail cover letter discussing how your qualifications meet the requirements of this position to resumes@iosdv.com

IO Environmental & Infrastructure, Inc. (IOEI) is a service-disabled veteran-owned small business established in 2006. We highly encourage veterans and diversity candidates to apply.

Geology Job Seekers

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 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.

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.