



SAN DIEGO ASSOCIATION OF GEOLOGISTS

www.sandiegogeologists.org

SDAG MEETING ANNOUNCEMENT

WEDNESDAY, DECEMBER 9, 2015

Research Updates from the San Diego Natural
History Museum

Presented by:

Dr. Tom Deméré

Department of Paleontology, San Diego Natural History Museum

Where: **San Diego Natural History Museum**
1788 El Prado, San Diego, 92101 (See Map)

When: 6:00 pm - Social Hour
7:00 pm - Dinner
8:00 pm – Program

Dinner: Deluxe Mexican Buffet. Cash bar

Cost: \$45 per person, \$5 discount for members, STUDENTS: \$25. Add \$5 if you did not make a reservation. Includes one complimentary drink ticket courtesy of Geocon Incorporated!

Reservations: Make your reservation online at www.sandiegogeologists.org **no later than noon, Monday December 7th**. Reservations cannot be guaranteed after Monday at noon; but are always preferred over walk ins. Reservations well before the deadline are MUCH appreciated.



SPEAKER BIO

Thomas A. Deméré, Ph.D.

Tom attended San Diego State University (BS Geology), USC (MS Geology) and UCLA (Ph.D. Biology). After an initial period working in the petroleum industry, Tom moved to the San Diego Natural History Museum where he has been employed since 1979. He is currently Curator of the Department of Paleontology, where he occupies the Joshua L. Baily, Jr. Chair of Paleontology. Tom's research interests are in Cenozoic paleontology and geology of Southern California and Baja California. His invertebrate paleontological work has concentrated on Plio-Pleistocene molluscan biostratigraphy, paleoecology, and taphonomy. His vertebrate paleontological work focuses on the evolutionary history of marine mammals (pinnipeds and cetaceans). In pursuing this line of research Tom is involved with field investigations to discover new fossils of pinnipeds and cetaceans, with anatomical investigations of both fossil and Recent marine mammals, and with functional analysis of feeding and locomotor anatomical features.

Since the early 1980s, Tom has been deeply involved with conservation of the rich and unique paleontological resources of Southern California. In this regard, he has helped put together guidelines for determining the paleontological resource sensitivity of geological deposits that occur in the region. Tom has also headed up the Museum's Department of PaleoServices, whose goal it is to mitigate negative construction-related impacts to sensitive paleontological resources. Typically, mitigation involves monitoring of construction activities, discovery and salvaged of unearthed fossil remains, preparation of salvaged fossils, identification and curation of prepared fossils, and storage of curated fossils in perpetuity for future generations. Over the past 33 years this effort has resulted in the recovery

of countless rare and/or unique fossil remains, many of which are, or have been, displayed for the public at the Museum.

As an adjunct faculty at nearby SDSU in both the Department of Geological Sciences and Department of Biology, Tom has had the opportunity to advise a number of undergraduate and graduate students on various paleontological projects. Tom's involvement with students increased in 2009 when he began teaching courses (Geobiology and Historical Geology) in the Department of Geological Sciences, where he was an undergraduate student in the 1970s.

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.

January 2016	Diana Lindsey – The Geology of Africa (working title only)
February 2016	Keith Meldahl - Surf, sand and stone; how waves, earthquakes and other forces shape the Southern California coast
March 2016	Chuck Houser – A tail of two fractured bedrock aquifers

2015 SDAG EXECUTIVE COMMITTEE

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

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llindsay@sunbeltpub.com

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2016 SDAG MEMBERSHIP

It's never too early to renew 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

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:
(check choice) _____ Student Member (email delivery only) \$ 5.00
_____ 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



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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 11/15/2015

SDAG PRESIDENT'S CORNER

Greetings SDAG Members!

I hope everyone had a wonderful Thanksgiving! As always, we have a great holiday meeting coming up at the Natural History Museum. It is always a treat to check out the museum after hours and to hear Tom Demere speak on the latest discoveries made by the SDNHM!

As my tenure as president is coming to an end, I am reflecting on the last four years. It has been a wonderful, fulfilling experience to serve as an officer of SDAG, and I am incredibly grateful to have had the opportunity. I've had a chance to make new friends, get to know some of the researchers whose work I greatly admire, and be involved at a deeper level with the association. I've learned about all the amazing work a handful of people do behind the scenes. And I feel that I've become a better geologist and have learned more about our fascinating local geology.

I want to say thank you to all those who have helped and supported me over the last four years. The work of SDAG is truly a group effort; there are a number of people who devote many hours to keeping things running.

I want to acknowledge what an awesome job the officers have done this year – Rupert, Chris, and Randy are a great team and I know great things are yet to come for SDAG!

I hope you all have a wonderful holiday season and a joyous new year!

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

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 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 submittals came from Jen, our esteemed President, who took some great shots during last month's annual SDAG field trip to the Coyote Mountains.









GEOLOGY JOB OPPORTUNITIES

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

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.

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 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.



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Contact: **Dr. David R. Hargis**



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

Contact: **Louise Adams or Suzie Nawikas**



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<http://www.tetrattech.com>

Contact: **Dave Bloom**



Contact: **Rupert Adams, CEG**

Geocon Incorporated
6960 Flanders Drive, San Diego, CA 92121
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Contact: Brian Olson

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- Greg Cranham - Consulting Geologist
- Dr. Margaret Eggers, CHG – Eggers Environmental, Inc.
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- Property Matrix – Property Management Software
- Les Reed – Geotechnical Exploration Inc.
- Gerald Shiller
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- Mary Walke
- Carole L. Ziegler

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