

SAN DIEGO ASSOCIATION OF GEOLOGISTS

www.sandiegogeologists.org

SDAG MEETING ANNOUNCEMENT WEDNESDAY, FEBRUARY 18th, 2009

Anza-Borrego's New Sister Park in Mongolia's Gobi Desert

Presented by

DIANA LINDSAY, Anza-Borrego Foundation and Institute

Where: Catalina Room (southern end of MVCC) **SEE MAP**
Marina Village Conference Center
1936 Quivira Way, San Diego, CA 92109

When: 5:30 pm – Social Hour
6:30 pm – Dinner
7:00 pm – Program

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.

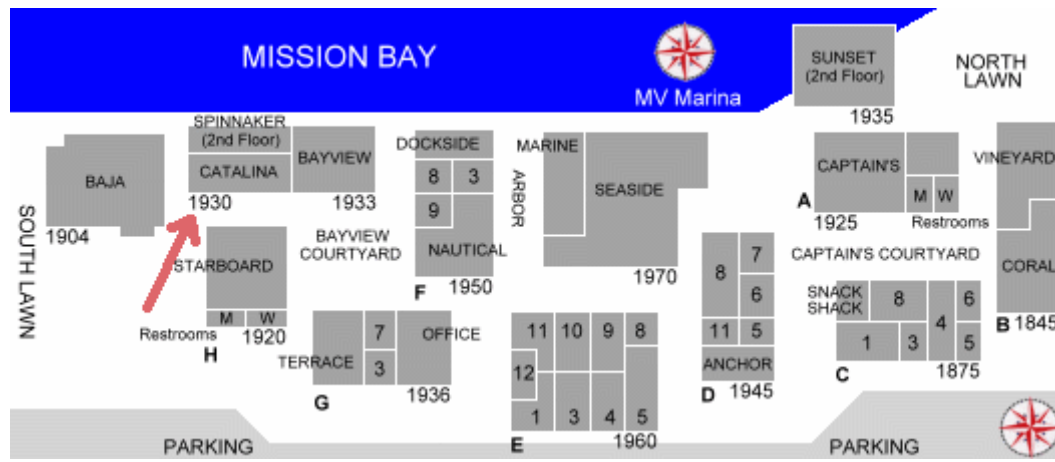
FROM INTERSTATE 8: Take the WEST MISSION BAY DRIVE exit to the right. You will be on INGRAHAM STREET for a short distance from which you will take the next exit marked WEST MISSION BAY DRIVE on your right. When you see the large green sign that says QUIVIRA ROAD, get in the farthest left of the two left 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.

Dinner: Italian Buffet. Beverage station. Dessert. Cash bar.

Cost: \$30 per person, \$5 discount for members, STUDENTS: \$20. Add \$5 if you did not make a reservation

Reservations: Make your reservation **online** at www.sandiegogeologists.org **no later than noon, Monday, February 16th**.

**RESERVATIONS CANNOT BE ACCEPTED AFTER MONDAY AT 12 NOON.
IF YOU DO NOT MAKE A RESERVATION, WE CANNOT GUARANTEE YOU A MEAL.**



2009 SDAG MEETING SCHEDULE - Mark your Calendars!

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

March 18	Jared Warner , SDAG Scholarship award winner, SDSU <i>"Biotic Response of Ostracodes to the Middle Eocene Climatic Optimum (MECO) in the Southern Indian Ocean"</i> (at Emiliano's, Mission Gorge Rd.)
April 15 (!)	Guy Conselmagno , subject TBD
May 20	Candace Kohl , subject TBD

2009 EXECUTIVE COMMITTEE

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SPEAKER BIO

Diana Lindsay

Diana Lindsay received her master's degree in history and geography from San Diego State University. Her thesis was subsequently published as *Our Historic Desert* by Copley Books in 1973. A few years later, she co-authored *The Anza-Borrego Desert Region*, a guidebook to the area published by Wilderness Press in 1978. It is now in its 5th edition. Her book *Anza-Borrego A to Z: People, Places, and Things* was published in 2001. She edited and wrote the foreword to *Marshal South and the Ghost Mountain Chronicles* in 2005 and also the foreword to *Anza-Borrego: A Photographic Journey* in 2008.

Diana's interest in the desert extends to her voluntary life. She is currently vice-president of environmental affairs for the Anza-Borrego Foundation and Institute. In September 2008 she was part of an official delegation from Anza-Borrego Desert State Park that carried documents to Mongolia establishing a sister park relationship with a reserve in the Gobi Desert.

When not writing, researching, or volunteering on behalf of California State Parks, Diana manages her regional book distribution and publishing business, Sunbelt Publications.

SPEAKER ABSTRACT

“Anza-Borrego’s New Sister Park in Mongolia’s Gobi Desert”

A delegation from Anza-Borrego Desert State Park carried documents from the California Park & Recreation Commission and the Governor’s office officially establishing a sister park relationship with Ikh Nart Nature Reserve in southeastern Mongolia this past September. In addition to formalizing the relationship with the reserve, the delegation toured the Gobi Desert and Mongolian national parks to become better informed about setting up summer hostels to Mongolia through the Anza-Borrego Foundation and Institute. Join ABFI delegate Diana Lindsay in this armchair adventure at SDAG’s February 18 meeting as she shares the experience of drinking fermented mare’s milk, riding camels over sand dunes, hiking volcanic Vulture Gorge, chasing rare Przewalski horses, and bouncing cross-country in Russian four-wheel drive vehicles. She will be bringing rock samples that she brought back from her Mongolia adventure.

PRESIDENTS CORNER, FEBRUARY 2009

Well the year started off with a nice talk by Mike O'Hare from the USGS about the work they have been doing on the hydrogeology of the Coastal San Diego area. There are a lot of different facets of this study and we hope to bring you more information via some additional talks on this topic as the folks from USGS delve more into the questions that they face. Thanks go out to Wes Danskin for being so proactive in getting this information to us. I encourage everyone to visit their website (<http://ca.water.usgs.gov/sandiego/>) and see what they have been working on.

We are planning some more one stop wonders (OSWs) in the coming months, so stay tuned.

The field trip for this year is on the fast track thanks to Bryan Miller-Hicks and Monte Marshall. As more information and details are developed, we'll be passing them along to you.

If anyone would like to provide input on different meeting locations or knows of a speaker that would have a topic of interest to the group, email me and let me know your thoughts.

Scott Snyder - SDAG President

2009 CORPORATE SPONSORS - THANK YOU!!

Corporate sponsors provide a significant portion of SDAG’s operating and scholarship budget. In addition to monthly recognition for your contribution, you are entitled to a free Internet link from [SDAG’s Website](#). We also list Corporate Sponsors in our annual SDAG Field Trip Volume.

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Corporate Sponsors: (continued)

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A note from the secretary:

Please let me know if you paid for a corporate sponsorship and are not listed. Also, please let me know of any job openings or upcoming events of interest to the Earth science community. E-mail is best:

sdag2009@geology-guy.com is an address I've set up. *Phil*

ANNOUNCEMENTS

CALL FOR PAPERS:

"Mylonitization and associated low angle/detachment faulting in the northern Santa Rosa and southern San Jacinto Mountains, California."

To be published in association with the
2009 San Diego Association of Geologists Annual Field Trip
November 7th and 8th, 2009

Co-editors:

Bryan Miller-Hicks, Vice President, SDAG
Independent engineering geology consultant
bryanmillerhicks@gmail.com 619-733-3724

Dr. Monte Marshall, Ph.D.
Emeritus Professor of Geologic Sciences, SDSU
mmarshall@geology.sdsu.edu 619-795-9871

SCOPE: Papers addressing topics related to mylonites, geology, structural geology, metamorphism, metasediments, faulting, folding, meta-structures, biology, environmental issues, geography, native American culture, and history of the Deep Canyon, northern Santa Rosa Mountains and southern San Jacinto Mountains

TIMELINE: Email a statement of interest & topic to the co-editors as soon as possible

Manuscripts due: April 15th, 2009

Revised manuscripts due: July 1st, 2009

Target publication date: late September, 2009

For further information, contact bryanmillerhicks@gmail.com or mmarshall@geology.sdsu.edu



**23rd ANNUAL SDSU GEOLOGY ALUMNI FIELD TRIP
GEOLOGIC EXCURSIONS IN THE EASTERN CALIFORNIA SHEAR ZONE
FEBRUARY 27th, 28th & MARCH 1st 2009**

The 23rd Annual SDSU Geology Field Trip/Campout will be at the Picacho State Recreation Area, California, about 25 miles north of Winterhaven, CA. All SDSU Geology Alumni and Friends are welcome. Jon Sainsbury, who is completing his Master's Thesis in the area, has graciously agreed to be this year's Field Trip Leader. His work involves mapping an anticlinorium that has been re-activated by strike-slip faulting. By correlating age dates for the Black Mountain Basalt and the Quechan volcanics, which are incorporated into the Bear Canyon conglomerate, evidence for much younger folding than previously interpreted has been inferred. The area also contains the Chocolate Mountains and Gatuna Fault which are detachment faults. These are offset by numerous San Andreas related strike slip faulting in the Eastern California Shear Zone. Some of these faults have displacements of near 0.5 km. These detachment faults separate the Orocopia Shist, a basement gneiss and the Winterhaven Formation.

The Field Trip will start from the "Group Campground" at 10:00 AM on Saturday February 28th, 2009. The Group Camp will be reserved for the Alumni Group for the 27th, 28th & 1st and should have room for 20 vehicles or more. If you prefer an individual site fees are \$10/night/vehicle with a \$5 extra charge per vehicle up to 3 vehicles and 8 people. Solar showers are located in the main camp and fairly clean pit toilets and potable water are located throughout the area. Dogs must be kept on a leash no longer than 6 feet and in your tent or vehicle at night. Temperatures are expected to be from the mid 70's to the low 40's. The 18 miles of gravel and washboard road between the All American Canal and the camp ground has a few soft spots but can be driven fairly easy if you pay attention to what you are doing. Additional information can be found at www.parks.ca.gov and then click on Picacho SRA.

COMMUNICATIONS: There was no Nextel service in the Campground but the Ranger has phone service thru someone so depending on what carrier you have you may get lucky! We will be using Family Radio Service (FRS) radios channel 11 with No Private Tones. Remember that the FRS radios have rather limited ranges in areas of uneven topography! The Black Mountain Amateur Radio Repeater, 147.120 + w/p1+103.5 will also be monitored.

SUPPLIES/SERVICES/FUEL: If, when you get off 1-8 at the 4th Ave/Winterhaven exit, you need fuel or other supplies you can go south to Yuma on 4th Ave. There are gas stations, fast food places, etc. just a few miles into town. It is recommended that you fuel before coming to the campground as we will be driving to Jon's Field Area on Saturday morning which is about a 40 minute drive. Plan on bringing water and a lunch for the Saturday excursion. If any of our Alumni are interested in becoming involved with the Alumni Activities and would like to assist with future trips or has a special place in mind that would be good for a future trip please let me know. Give me a call or email if you have any questions. Day (858) 492-5034, Eve. (858) 484-3582, or jcorones@sandiego.gov I am looking forward to seeing everyone at Picacho.

Joe Coronas, Alumni Field Trip Chairman.

Congratulations to Tom Kuper and Dorian Kuper!

Tom and Dorian are the two geologists that will be honored at this year's SDSU geology department banquet. Each has made fine contributions to geology and the geologic community, and we are proud they are alumni of the SDSU Department of Geological Sciences. In fact, each was president of SDAG, Dorian in 1983 and Tom in 1986.

The date of the banquet is tentatively set for April 24th and the location may be the Holiday Inn on Murphy Canyon Road near Aero Drive. Stay tuned to this space for further details...

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- Owner is willing to offer one month of FREE RENT for every year the facility is leased!
- Contact Terry Cochran at 619-258-4905, ext. 110 or tcochran@sunbeltpub.com for more information.

Rocks with Provenance Needed for a Reference Collection for Typing and Sourcing San Diego Co. Artifacts

The San Diego Archaeological Center and local archaeologists need a county-wide reference collection of local rocks from outcrops. The collection will be an important resource for archaeologists involved in typing and sourcing stone artifacts from the San Diego area.

Norrie Robbins, adjunct faculty in the Dept. of Geological Sciences at SDSU, is spearheading this volunteer effort. She notes that geologists use a much wider variety of descriptors for rocks than do archaeologists. One of the objectives of this project is to cross-reference archaeological categories with geological ones to help develop a mutually understandable terminology and to improve sourcing. Rock specimens in the reference collection will be identified by spatial coordinates and both geological and archaeological descriptors.

Please contact Norrie (nrobbins@geology.sdsu.edu, 619-303-9095) with any questions and to arrange pick up of specimens. Specimens may also be placed in her mailbox at SDSU or dropped off at the Center (please indicate Attention: Rebecca Nathan). In addition, Dr. Robbins or Dr. Tim Gross will be available at most meetings of the San Diego County Archaeological Society (SDCAS) and San Diego Association of Geologists (SDAG) to accept specimens. Building the reference collection is a long-term project. There is no time limit for making your contributions.

Google Earth™ finally recognizes the other 70.8% of Earth's surface!

"SAN FRANCISCO - Google Earth unveiled the fifth official revamp of its service on Monday, taking virtual tourists down to the bottom of the sea floor, to Mars, and back in time to explore the past through historical data.

As expected, Google unveiled the complement to what Sylvia Earle, a National Geographic explorer-in-residence, called "Google Dirt". Google Ocean not only highlights the surface of the sea and its wonders, but also will map the sea floor, down to the Mariana Trench, five miles down.

"When you think about Google Earth and oceans in general, there's a problem: we don't know much about it," Google chief executive Eric Schmidt said during a Monday press conference.

There is more biodiversity in the ocean than there is in the Amazon – a fact that Schmidt said he didn't know until he was involved in the project.

Like Google Earth, virtually all of the content resides on Google's servers. Users who download the application use the application as a viewer, loading data as the user needs it. About 50 million measurements were taken to compile the undersea topography map, Google executives said.

For those invited to speak at the Google launch event, the new iteration of Google Earth appears to be a high-profile way of putting the ocean's problems in front of the world's population." (*lifted from the PC Magazine website at <http://www.pcmag.com/article2/0,2817,2340000,00.asp>, "Revamped Google Earth Dives to Ocean Floor", by Mark Hachman, 2/2/09*)

So what does this mean to us in Southern California, you say? Well, to me (PF), it means that I now get true indicated altitudes in Imperial County, which previously showed the Salton Sea at an altitude of 0 feet/meters, now gives an altitude of -226 feet. However, my plug-in for USGS Real-time Earthquakes, which shows all earthquakes in the last week all over the world, now makes the icons for shakers all at the same size – the dots formerly were proportional to magnitude (picky, picky!).

And speaking of Google Earth, if you don't already know about it, check out **Tony Carrasco's** wonderful Google Earth Geology pages at <http://www.geology.sdsu.edu/localgeology/getour.html>. The sub-title is "Google Earth Tour of Geologic Features (KMZ/KML Files)" – you'll find plug-ins for all sorts of local and world geology, including the Picacho Recreation Area, where the SDSU geo-alumni field trip is going.

JOB OPENINGS!

URS Corporation, ranked number one on Engineering News-Record's list of the Top 500 Design Firms for Seventh consecutive year is a leading provider of planning, design, systems engineering and integration, technology development, program and construction management, and operations and maintenance services to federal, state and local government agencies in the U.S., Fortune 500 corporations worldwide and government clients in Europe and Asia/Pacific. We're currently looking for a Geologist in our San Diego, CA office.

URS30335 – Geologist/Engineer

Minimum Requirements: Bachelors Degree with 2+ years of experience in the environmental consulting industry or related business. Good written and verbal communication skills, able to work independently and familiar with local regulatory guidelines (DEH, RWQCB, DTSC). Valid drivers license is required due to some travel to/from sites as needed.

Job Description: Assist Project Manager in conducting Phase I and Phase II Site Assessments and oversight of remedial programs. Ability to successfully complete the following:

Manage small projects from start to finish with limited supervision, familiar with a variety of invasive drilling/subsurface investigation techniques, log borings in accordance with USCS, install monitoring wells in accordance with DEH guidelines, provide fieldwork oversight of subcontractors, prepare work plans, familiar with laboratory analyses and waste characterization criteria, familiar with human health screening criteria, interpretation of geologic and chemical data for surface water, soil, soil gas and groundwater and to assist with preparation of reports summarizing field procedures and results.

URS 33917 – Geologist/Engineer

Minimum Requirements: Bachelors Degree with 2+ years of experience in the environmental consulting industry or related business. Good written and verbal communication skills, able to work independently and familiar with local regulatory guidelines (DEH, RWQCB, DTSC). Valid drivers license is required due to some travel to/from sites as needed.

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Hargis + Associates, Inc., a San Diego based consulting firm specializing in **hydrogeology and engineering**, and **SDAG Corporate Sponsor** currently has opportunities in our San Diego, California office. We are currently looking to fill the following positions:

CAD Technician: Ideal candidate is a highly qualified professional for preparation of engineering and geologic graphics. Position requires experience in *AutoCAD* and with engineering process design. Experience with *Civil 3D*, *Land Development Desktop*, *Autoplant*, and *Arcview* a plus.

Staff Engineer: Candidate would have a B.S. Degree in Chemical, Civil, or Mechanical Engineering and 3 to 5 years relevant experience including design, operation, and maintenance of remediation systems. Masters degree and registration is a plus. Candidate should possess strong writing and presentation skills. Position will be based in San Diego, California, and will require some travel and field work. Valid driver's license and U.S. Citizenship required. OSHA 40-hour training preferred, but not mandatory.

Hydrogeologist: Candidate would have a B.S. Degree in Geology and M. S. Degree would be a plus. Entry level position, with work including soil and groundwater sampling, well installation, aquifer test analysis, and report preparation. Candidate should possess strong writing and presentation skills. Candidate with Hydrogeology coursework or GIS background is a positive. Position will be based in San Diego, and will require travel and field work. Only entry level candidates will be considered. Valid driver's license and U.S. Citizenship required. OSHA 40-hour training preferred, but not mandatory.

Staff Hydrogeologist: Position requires minimum a B.S. Degree in Geology, and 3 to 5 years relevant experience, including experience with soils and groundwater sampling, well installation, work plan and report preparation, task management, cost estimating and scheduling. Candidate should possess strong organizational, writing and presentation skills. California Professional Geologist (PG), or ability to obtain within two years, groundwater modeling experience, and Masters degree is a plus. Position will be based in San Diego, and will require some travel and field work. Valid driver's license and U.S. Citizenship required. OSHA 40-hour training required.

Hargis + Associates offer competitive salaries and benefits, and a challenging work atmosphere. Hargis + Associates is an Equal Opportunity Employer. To learn more about Hargis + Associates, please visit our website at: www.hargis.com.

No phone calls please. Qualified candidates should send resumes, along with a cover letter summarizing experience and salary requirements to:

Hargis + Associates, Inc.
Attention: Jennifer Layton
2365 Northside Drive, Suite C-100
San Diego, CA 92108

The San Diego Natural History Museum is run and 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 PaleoServices (DPS) specializes in paleontological resource management. Our focus is on the recognition, recovery, and preservation of the significant and unique paleontological resources that occur in this region. The activities of DPS are helping to preserve significant fossil assemblages and are directly contributing to the growth of the important paleontological research collections at the Museum. We are currently looking to fill the following position:

Paleontological Field Manager: Position responsibilities include coordination of paleontological field activities (i.e., supervision of field monitors in prospecting for and collection of fossils and the recording of stratigraphic, taphonomic, geographic, and topographic data) and production of final project reports that summarize the methods and preliminary results of paleontological salvage activities. Other duties include generation of initial discovery letter reports for City, County, and/or State agency managers and generation of paleontological resource assessment technical reports. Opportunities also include paleontological field work in the Southern California region and working with the extensive fossil collections of the San Diego Natural History Museum.

Qualified candidates must have at least a B.S. Degree in Geology or Paleobiology; 2 to 3 years of relevant experience (especially sedimentary geology and paleontology); excellent supervisory/managerial, verbal, written, and interpersonal skills; and a strong work ethic, intense drive, and initiative for quality and customer service. This position is a regular, full-time salaried position with a generous benefits package (e.g., full medical and 401K plan). Compensation will be based on individual qualifications and experience (annual salary range \$40,000 to \$60,000).

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