



# SAN DIEGO ASSOCIATION OF GEOLOGISTS

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

## SDAG MEETING ANNOUNCEMENT

**WEDNESDAY, March 17, 2004**

### ***DESERT GEOMORPHOLOGY SHAPES ANZA-BORREGO'S HISTORY***

*presented by*  
Diana Lindsay

**Where:** Tom Ham's Lighthouse Restaurant  
2150 Harbor Island Drive  
San Diego, CA 92101  
(619) 292-9110

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



**Directions:** Tom Ham's is located at the west end of Harbor Island. From Harbor Drive turn south onto Harbor Island Drive. At the second light turn right. Tom Ham's is at the end.

**Dinner:** Buffet. Hot Entrees: Roast Breast of Turkey, Fresh Seafood in Season, and Pasta Primavera (with vegetables).  
Served with: Salad Bar, Rice and Vegetable, Coffee, Tea, Milk, or Soft Drink, Bread and Butter.  
Salad Bar includes: Caesar Salad, Tossed Green Salad, Choice of two Dressings, Marinated Garbanzo Beans, Three Bean Salad, Potato Salad, Waldorf Salad, Pasta Salad, Cottage Cheese and Seasonal Fruit.  
Plus: (Anza Borrego) Dessert Table.

**Cost:** \$25.00 per member and guests, \$10 for students. Add \$5.00 if you did not make a reservation.

**Reservations:** Make your reservation **online** at [www.sandiegogeologists.org](http://www.sandiegogeologists.org) or call the SDAG Reservation Hotline at (619) 255-8380, **no later than 5PM Friday, March 12<sup>th</sup>**.

**RESERVATIONS CANNOT BE ACCEPTED AFTER FRIDAY AT 5PM.**  
**(NOTE: This reservation date is earlier than usual.)**

***...and don't forget to wear green!***

**SPEAKER: Diana Lindsay**  
**A BIOGRAPHICAL SKETCH**



In 1966 Diana Lindsay figuratively went into the desert and never came out. She was a reluctant visitor because she expected to see little of value. What she found, however, was silence, peace, a fragile beauty, a sense of vastness and timelessness, and indomitable strength and will to survive. That first visit to the Anza-Borrego Desert changed her life and helped to define it. It became the subject of her master's thesis from San Diego State University, which 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 4th edition. Her *Anza-Borrego A to Z: People, Places, and Things* was published in 2001.

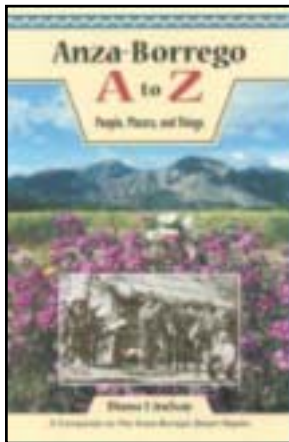
Diana's interest in the desert extends to her voluntary life. She has served 20 years as a board member of the Anza-Borrego Foundation and was president when ABF raised \$2.5 million for the purchase of Sentenac Canyon and Cienega. She is dedicating 100% of the author royalties of *Anza-Borrego A to Z* to the purchase of inholdings within Anza-Borrego Desert State Park.

Her research on the Anza-Borrego area included a study on the local Indians who once inhabited the desert region. She expanded this research and worked with author David Valley to co-author *Jackpot Trail: Indian Gaming in Southern California*, which includes a history of the 21 Indian bands in southern California engaged in gaming.

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

**SUMMARY:**

**DESERT GEOMORPHOLOGY SHAPES ANZA-BORREGO'S HISTORY**



Diana Lindsay, co-author of *The Anza-Borrego Desert Region* and author of *Anza-Borrego A to Z: People, Places, and Things*, and will present a slide show and lecture on the Anza-Borrego Desert State Park at our next SDAG meeting on March 17. The topography of the area has resulted in the creation of a desert as well as dictating routes of travel and early history of the area. This includes the earliest Indians who called this desert home, Spaniards and then Mexicans who sought a trail through the desert, and Anglos who used these trails en route to the gold fields and later stayed to prospect, graze their cattle and sheep, and homestead. The natural beauty of this desert, noted by the earliest visitors, eventually led to the formation of America's largest state park outside of Alaska and a growing realization that it is "world-class" in every sense – in its geology, paleontology, human history, and rich diversity of flora and fauna. Diana did her master's thesis on the history of Anza-Borrego Desert State Park, which was subsequently published by Copley Books as *Our Historic Desert* in 1973.

**2004 EXECUTIVE COMMITTEE**

**PRESIDENT** - Monte Murbach; *Petra Geotechnical*; Ph: (858)-485-5530; [mmurbach@petra-inc.com](mailto:mmurbach@petra-inc.com)

**VICE PRESIDENT** - Margaret Eggers; *Eggers Environmental, Inc.*; Ph: (760) 757-7711; [meggers@eggervenv.com](mailto:meggers@eggervenv.com)

**SECRETARY** - David Bloom; *Anteon*; Ph: (619) 524-6967; fax (619) 524-6000; [secretary@sandiegogeologists.org](mailto:secretary@sandiegogeologists.org)

**TREASURER**-Phil Farquharson; *CG-Squared Productions*, Ph.(619) 224-8463; fax (619) 255-8380; [geoguy@cg-squared.com](mailto:geoguy@cg-squared.com)

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

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

## PRESIDENT'S ROUNDED CORNER:

- Diana is an excellent speaker and she really knows her desert stuff. I encourage everyone to attend this month's meeting and learn more about San Diego's backcountry. A note from Diana: March 2004 may not be the best time for geologists to head to the desert because it is greening up and wildflowers are expected to be the best in many years. With those darn biologics covering the desert landscape (both plants and people who are looking for them), it may be challenging to find the familiar barren outcrops beloved by geologists. So what better way to find out what the fuss is all about and to celebrate St. Patrick's Day than to attend the March 17 meeting.
- Book of the month: *Krakatoa*, by Simon Winchester. Holy Cowa. I cannot put this book down. There is incredible detail of world history leading up to and after the infamous explosion of the volcano Krakatoa on August 27, 1883.

## ANNOUNCEMENTS:

### SDSU GEOLOGY DEPARTMENT SEMINARS for 2004

Departmental Seminars on Wednesdays. <http://www.geology.sdsu.edu/seminars/>

---

---

**SDAG NEWSLETTER IS DIGITAL!** If we don't have your e-mail address, or your email address changes, or if you have problems with the electronic format please contact **David Bloom** at 619-524-6967 OR [secretary@sandiegoeologists.org](mailto:secretary@sandiegoeologists.org).

---

---

### **SDAG Historical Geologic Map Archive**



"Thank you!" for your suggestions so far. We have already scanned a pristine copy of Ellis & Lee's 1919 map (left) "Preliminary Geologic Map of San Diego County, California" from USGS Water Supply Paper 446. Please let us know what other rare, out-of-print geologic maps you would like to see in SDAG's electronic archive. We would like San Diego area geologic maps of regional scale (covering 7.5-minutes or more), and in the public domain. The goal of this project is to make a CD-ROM containing a set of digitally scanned maps available to SDAG members. Many of our own maps are damaged or missing from the map pocket of their corresponding reports. If you have a pristine copy of a rare geologic map, we would like to borrow it for scanning. Please contact **Greg Cranham** at [mgcranham@hargis.com](mailto:mgcranham@hargis.com), or **David Bloom** at [secretary@sandiegoeologists.org](mailto:secretary@sandiegoeologists.org) or (619)524-6967.

---

---

For more variety and impact with Power Point presentations and speeches, call SDAG Member **Russ Daubert**, Professional Communication Training at (619) 938-0429. Email: [procommtraining@cox.net](mailto:procommtraining@cox.net)

---

---

**SDAG Wear:** - Monte (Murbach) has a variety of shirts, hats, visors and even a nice vest with the SDAG logo. A small selection is available for purchase at the meetings; all SDAG wear can be ordered from Monte.

---

---

**DO YOU HAVE AN ANNOUNCEMENT??** Do you have an event, job opening, field trip or other announcement you would like to share with our members?? Just call or email our SDAG Secretary, **David Bloom** at 619-524-6967 OR [secretary@sandiegoeologists.org](mailto:secretary@sandiegoeologists.org).

---

---



## Geology Alumni

### 18<sup>th</sup> ANNUAL SDSU GEOLOGY ALUMNI FIELD TRIP

#### Geology and Paleomagnetism of the southern Coyote Mountains—From Painted Gorge to Fossil Canyon

APRIL 2, 3, & 4, 2004

This year's Field Trip/Campout will be to the Coyote Mts. where many of us experienced our beginning Geology Field Classes. Dr. Monte Marshall will show us outcrops that speak to the geologic history/evolution of the southern Coyote Mtns., and also present paleomagnetic data that show block rotations of more than 180 degrees in places! Since most geologists have had little practical experience in paleomagnetism, we will talk about sampling procedures, and how the remnant magnetism direction in the rocks is measured and interpreted. Everyone will be given handouts that include the paleomagnetic results in the area from several MS studies. Along with the neat stratigraphy and structure we will see, we can hypothesize on the spot how this geologically complex, but beautiful and scenic range, might have formed and what is its relation to the adjacent Elsinore fault. We will be primitively camping Friday (optional) and Saturday night in the Fossil Canyon area and Sunday morning head to Painted Gorge for one planned stop. An optional 4-Wheel Drive excursion (carpools) that takes us up thru the overlapping sedimentary rocks which are lying on the basement rocks to some scenic overlooks high in the range is also planned for those who wish to go. Please remember to bring your camera as there are photo opportunities that could easily grace the cover of any geologic publication that you receive. All SDSU Geology Alumni, Faculty, Staff, SDAG Members and other interested parties are welcome to attend.

**Directions to camp area:** From SDSU go east on I-8 about 90 miles to the Ocotillo, S-2, Anza Borrego State Park exit. At the off ramp make a left turn, zero your trip meter and proceed on S-2 about 1.4 miles to the stop sign. Make a right turn towards Fossil/Shell Canyon and the County Disposal Site. At 3.8 miles the pavement makes a left turn and you leave the pavement going straight and pass some BLM limited use signs. Continue on the main dirt/gravel track to 4.4 miles and an open canyon (CAMP) on your right which many of you may recognize. Watch for survey laths with multi-colored flagging tape at the turnoff from the main paved road. On Saturday morning about 9:30 we will begin the orientation and outline the day's events. This trip is not designed to be a "Death March" so plan on joining us for an educational and entertaining weekend in the Desert. Fuel & limited food items available 24/7 at the 76 station south of off ramp. Family Service Radios channel 11 will be monitored and also used on the optional Sunday trip.

Contact **Joe Corones** for information. **Day (858) 492-5034, Eve (858) 484-3582**

---

---

## SDAG PUBLICATION ORDER FORM

(619) 258-4911  
 fax: (619) 258-4916

P. O. Box 191126  
 San Diego, California 92159-1126

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

LIST	QUANTIY	PRICE	TOTAL
<i>Landslides in Crystalline Basement Terrain</i> Evans (1988)		\$ 5.00	\$
<i>Seismic Risk in the San Diego Region</i> Roquemore, Tanges and Wright (1989 - proceedings)		10.00	
<i>Geotechnical Engineering Case Histories in San Diego County</i> Hoobs (1990)		10.00	
<i>Environmental Perils, San Diego Region</i> Abbott and Elliott (1991)		10.00	
<i>Natural History of the Coronado Islands, Baja California, Mexico, Revisited</i> Perry (1992)		10.00	
<i>Geology and Natural History, Camp Pendleton US Marine Corps Base, San Diego County, California</i> Rosenberg (1994)		15.00	
<i>Paleontology and Geology of the Western Salton Trough Detachment, Anza-Borrego Desert State Park, California</i> Remeika and Sturz (1995)		15.00	
<i>Geology and Natural Resources of Coastal San Diego County, California</i> Munasinghe and Rosenberg (1996)		Out of print	
<i>Santa Cruz Island Geology Field Trip Guide</i> Boles and Landry (1997)		15.00	
<i>Geology and Geothermal Resources of the Imperial and Mexicali Valleys</i> Lindsay and Hample (1998)		15.00	
<i>Water for Southern California</i> Cranham(1999)		15.00	
<i>Geology and Enology of the Temecula Valley</i> Birnbaum and Cato (2000)		15.00	
<i>Coastal Processes and Engineering Geology of San Diego, California</i> Stroh (2001)		25.00	
<i>Geology of the Elsinore Fault Zone San Diego Region</i> Murbach and Hart (2003)		25.00	
<b>SUBTOTAL:</b>			
<b>Postage and Handling</b> \$4.00/book (unless picked up):		4.00	
<b>TOTAL:</b>			

rev. 02/04

DATE OF ORDER: \_\_\_\_\_

CHECK # \_\_\_\_\_

SHIP TO: \_\_\_\_\_

1. Prices subject to change without notice. \_\_\_\_\_
2. Allow 4 weeks for delivery. \_\_\_\_\_
3. Make checks payable to SDAG at address above. \_\_\_\_\_
4. Bookseller discount off list price is 40%,  
     resale number required.                      Phone: \_\_\_\_\_

## JOB OPENINGS!

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



Staff Hydrogeologist–Modeler: Candidate would possess a M.S. Degree in Hydrogeology, and 2 to 4 years relevant experience, including experience with groundwater modeling and GIS. Candidate should possess strong writing and presentation skills. California registration is a plus. OSHA 40-hour training preferred, but not mandatory. Position may be based in San Diego, CA, or Mesa, AZ. Some travel may be required.

Entry Level Engineer: Candidate would possess B.S. Degree in Chemical, Civil, or Mechanical Engineering. Position will be based in San Diego, and may require some travel and field work. OSHA 40-hour training preferred, but not mandatory.

Staff Engineer: Candidate would possess B.S. Degree in Chemical, Civil, or Mechanical Engineering and EIT Certification, and two to four years of 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, and may require some travel and field work. OSHA 40-hour training preferred, but not mandatory.

Hargis + Associates offers 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](http://www.hargis.com).

Qualified candidates should send resumes, along with a cover letter summarizing experience and salary requirements to:

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

---

**KLEINFELDER** is seeking a **Senior Environmental Engineer for their Temecula office**. Qualifications: Job Code #292: Seeking individual with management experience (personnel and projects). Positions require BS degrees in civil, chemical, mechanical, or environmental engineering; MS degrees with EIT, PE, or certification preferred. Ten plus related experience required. To submit a resume online, go to [Kleinfelder.com](http://Kleinfelder.com) and click on "Careers." (1203)

---

**AQUI-VER, INC. (AVI)** is looking for individuals who will build and develop a problem solving team that leads by example. This team will evaluate, design, implement, and execute leading edge assessment and remediation programs that emphasize site mitigation, property utilization and redevelopment. Located one block from La Jolla's beautiful Wind and Sea beach, AVI specializes in quantitative analysis of hydrogeologic and environmental problems that includes the design of cleanup systems, contaminant transport evaluations, environmental risk quantification, and other related services. Our firm is recognized for its unique science capabilities and strict adherence to a quality work and science ethic. See our web site for more information: [www.aquiver.com](http://www.aquiver.com).

**FULL-TIME WORK, ENTRY LEVEL:** AVI is looking for technically oriented individuals with strong analytical and problem solving skills. A degree in the earth sciences, mathematics, chemistry, or geography is required. We are looking for individuals who know how to map and interpret information, and are competent in one or more mapping programs (e.g., AutoCad, ArcView, Surfer, etc.), as well as good working skills with Microsoft Excel and word processing. Report writing skills are also of strong value, as is experience in the environmental consulting industry (though not needed).

**FULL-TIME WORK, SENIOR LEVEL:** AVI is looking for individuals who will build and develop a problem solving team that leads by example. This team will evaluate, design, implement, and execute leading edge assessment and remediation programs that emphasize site mitigation, property utilization and redevelopment. **Description:** Regular, high level communication with state and federal regulators on behalf of client base. Project management, data evaluation, and formulation and presentation of coherent arguments founded and supported by scientifically rigorous, and technically detailed analysis. Steward budgets, deliverables, and the team. **Qualifications:** MS or Ph.D. in earth sciences, hydrogeology, chemistry, physics, or related field. Good computer skills and comprehension of digital information. Competent in one or more mapping programs (AutoCad, ArcView, Surfer, etc.), as well as good working skills with Microsoft Excel and word processing. Strong leadership skills, report writing skills, and an ability to articulate science information in direct and simple terms are also highly desirable.

Please send resumes by E-mail or fax to Ms. Lori Bautista; 858-729-6564, [lbautista@aquiver.com](mailto:lbautista@aquiver.com). Starting wages depending on skills, background, experience and time commitment, with flexible hours, above industry standard. Professional advancement is likely for those qualified people that want to move forward with a career, with commensurate salaries and business opportunities. (1203)

### 2004 CORPORATE SPONSORS - THANK YOU!!

A significant portion of the SDAG operating and scholarship budget is provided by corporate sponsorship. Please consider becoming a Corporate Sponsor for 2004! In addition to monthly recognition for your contribution, you will be entitled to a free internet "link" from the [SDAG Website](#), and all Corporate Sponsors are listed in the front of the annual SDAG Field Trip Volume.

<a href="#">Dr. Sarah Gray - University of San Diego</a>	<a href="#">Dr. Monte Marshall</a>
Sue Tanges, Southland Geotechnical Consultants	Dr. Margaret Eggers, <a href="#">Eggers Environmental, Inc.</a>
David and Jan Steller	<a href="#">Dr. Anne Sturz</a>
<a href="#">Dr. Richard Berry</a>	<a href="#">Hargis + Associates, Inc.</a>
Carole L. Ziegler	Katherine Freese
Donald Sorben	Jonathan Goodmacher, <a href="#">PSI</a>
William J. Elliott, Engineering Geologist	Lowell Lindsay, <a href="#">Sunbelt Publications</a>
Pat Brooks and Julie Crosby	Rob Hawk, <a href="#">City of San Diego</a>
Dr. <a href="#">Pat Abbott</a>	<a href="#">Ninyo &amp; Moore</a>
Bob Smillie, <a href="#">TerraCosta Consulting Group</a>	John Hoobs - <a href="#">Geocon, Inc.</a>
Robert Crisman, <a href="#">Geo Soils, Inc.</a>	<a href="#">Carolyn Glockhoff</a> , Caro-Lion Enterprises
John Peterson, Peterson Environmental Services	Phil Farquharson, <a href="#">CG-Squared Productions</a>
Steven N. Bradley, <a href="#">Testing Engineers - San Diego, Inc.</a>	Joe Coronas, <a href="#">City of San Diego</a>
	Mr. Clive Moody, <a href="#">Fugro West, Inc.</a>

**San Diego Association of Geologists  
c/o David M. Bloom  
3728 Mt. Almagosa Place  
San Diego, CA 92111**