



SAN DIEGO ASSOCIATION OF GEOLOGISTS

1997 EXECUTIVE COMMITTEE

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MEETING AND PROGRAM ANNOUNCEMENT

WEDNESDAY, MARCH 19, 1997

SPEAKER: Dr. Richard Berry
Dept. of Geological Sciences
San Diego State University

TOPIC: Tiny Grains and Subduction Detection:
Early Tertiary Waxy Bentonites of the
San Diego Area and Plate Tectonics

PLACE:	Karl Strauss Brewery Gardens 9675 Scranton Rd. [Mira Mesa] San Diego (619) 587-2739	TIME: 6:00- Social Hour 7:00- Dinner 8:00- Program
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Directions: From I-805, exit and go east on Mira Mesa Blvd., turn left (north) on Scranton Rd.
From I-15, exit and go west on Mira Mesa Blvd., turn right (north) on Scranton Rd.

DINNER: Appetizer: Mixed green salad with fresh herb vinaigrette. Entree: Choice of Grilled Chipolte chicken breast with black beans and rice, garnished with homemade tomato, corn and avocado salsa OR Fresh Spinach Fettuchini tossed with grilled vegetables, roasted garlic, butter and white wine. Garnished with Parmesan cheese and fresh basil. Bread & butter, coffee & tea. Dessert: Apple Strudel.

COST: Current member- \$20.00 Non-member- \$20.00. Make check payable to SDAG.

RESERVATIONS REQUIRED by 5 p.m. Monday March 17 via phone to Lowell Lindsay (619) 258-4905 x103 including name, number in party, and affiliation. Pls call if you need to cancel. A reservation made is a reservation paid.

ABSTRACT

Waxy bentonites of San Diego County and Northern Baja California help us understand, with greater clarity, the process and timing of Eocene and Oligocene subduction-related events. The composition of subduction-related volcanic ash can be determined directly from waxy bentonite. Waxy bentonites can be shown to be both primary (resulting from direct fall of volcanic ash into salt or brackish water) and secondary (sedimentary deposits of waxy bentonite which have been reworked from older primary deposits). Waxy bentonites hold up well enough in a riverine environment to produce gritstones and pebble conglomerates.

Dick Berry is professor of geology at SDSU. He completed his undergraduate studies in Mining Engineering at Lafayette College (Easton, PA) and obtained his Masters Degree (Exploration Geophysics) and PhD (Geochemistry/ Clay Mineralogy) at Washington University (St.Louis, MO). His research interests focus on clay mineralogy of sediments and sedimentary rocks (mostly from marine environments of deposition). He has done consulting work both for engineering and petroleum companies, helping to solve problems related to clay mineralogy.

ANNOUNCEMENTS

* **CORPORATE SPONSORS-** Sincere thanks to these 1997 Corporate Sponsors who make possible educational assistance to a new generation of geologists:

Larry Cann; Joe Coronas; Perry and Nona Crampton; Bill Elliott, Consulting Geologist; Jean Ferguson, F&C Drilling; Geocon Inc.; Tim Gallagher, Gallagher Drilling Service; Gail Edward Hammond, San Diego Equipment Rental Inc.; Dr. Blayne Hartman, TEG; Barbara Johnston; H.L. Strickler, Hargis + Associates Inc.; Dr. Anne Sturz; Phil Rosenberg; Tetrattech EMI; Tony V. Sawyer, Consulting Hydrologist; Bob Smillie, Group Delta Consultants Inc.; David and Jan Steller; Southland Geotechnical Consultants; Carole Ziegler; Zeiser Kling Consultants.

* **MEMBERSHIP RENEWAL-** 1997 memberships are due and payable. Mail the enclosed form to Lowell or bring to this month's meeting including notes on errors and updates. An "exp" on address label indicates expired for 1997 per our records. This will be the last newsletter mailed to non-current members.

* **SDAG PROGRAMS-** Please contact Tissa at (619) 757-2121 ext. 6412 if you know anyone who would deliver a good presentation on a current and interesting topic to the SDAG community.

* **SDSU ALUMNI BANQUET-** Friday, April 18, 1997 in Casa Real at Aztec Center, SDSU. No-host cocktails at 6:00 p.m., dinner at 7:00 p.m., speaker after dinner. To register, please contact Pia Lincoln at SDSU Geology Dept. 5500 Campanile Dr. San Diego, CA 92182-1020. (619) 594-5587, fax -4372.

* **TENTATIVE PROGRAMS** Meetings/programs are third Wednesday of month unless otherwise announced.

Apr 16	Project reports from SDAG student scholarship recipients.	
May 21	White River Rafting the Colorado	--Sue Tanges
Jun 18	Well Design	--Mike Palmer
Jul 16	Geothermal Update- Imperial Valley	
Aug 23	Annual Picnic	
Sep 17		
Oct 17-19	Field Trip- Santa Cruz Island	
Oct 15	TBA	
Nov 19	Poster Session- Old Spaghetti Factory	
Dec 17	Paleo Update- Natural History Museum	--Tom Demere

* **SDAG NEWSLETTER DEADLINE** is 25th of month. Please mail, fax, or e-mail items to Lowell Lindsay. E-mail rwws14f@prodigy.com. If submitting material on computer diskette, save the item as flat ASCII text with accompanying hard copy.

* **GEOTECHNICAL PHOTOGRAPHY AND GIS: From Shooting to Digital Use.** Short course presented by Woody Higdon, Geo-Tech Imagery International, sponsored by the Ass'n of Engineering Geologists (AEG), 4/19-20/97 at the Irvine Ranch Water District Office. Fee is \$95, postmarked by 4-9-97. For info call Sue Tanges (619) 442-8022 or s.tanges@worldnet.att.net.

* **SEISMIC HAZARDS ANALYSIS SHORT COURSE** will be hosted by ASE on 5/3/97 in Menlo Park. Fee is \$95 AEG member, \$110 non-member. For more info contact Jack Alt (510) 791-1986 or EpigeneInt@aol.com.

* **SANITARY LANDFILL STATIC AND DYNAMIC SLOPE STABILITY CONFERENCE** will be hosted by ASE on 3/27-28/97 in Los Angeles or 4/10-11/97 in Sacramento. Fee is \$70. For more info call (916) 421-5276.

1997 Field Trip-SANTA CRUZ ISLAND

This is a rare opportunity to explore a beautiful, pristine island in the Channel Islands National Park.

Santa Cruz Island is the largest and most diverse of the Channel Islands. It is located 31 km southeast of Ventura, California, about a 2 hour boat ride. Most of the island is owned by the Nature Conservancy (90%), while the east end (10%) is owned by the National Park Service and private interests. The island is now part of the University of California's Natural Reserve System (Santa Cruz Island Reserve).

Since 1965, UCSB has operated a field station on the island to provide researchers with access. This spectacular island consists of about 60,000 acres of rugged mountains, rolling hills and valleys with sheer cliffs to the sea. The island has perennial streams, pine forests, marshes, grass lands, sea caves and a very diverse geologic history. Santa Cruz Island is uninhabited, except for the guides that will assist us and the ranch staff.

Trip Details:

We will be leaving San Diego by charter bus on Friday night, October 17, 1997, boarding at 11:30 pm. The bus can seat only 49 passengers, so sign up early, first-come-first-served. (By the way-the boat and the island accommodations also can only handle 49 people-so we're all on one bus-the party bus).

The bus will arrive at the docks in Ventura, California around 3:30 am Saturday morning, October 18. We will then board the boat and leave for Santa Cruz Island by 4:00 am. We should arrive at the island around 6:00 to 6:30 am. We will then pack our belongings onto waiting vehicles for the 3 mile trip to the research station and our new home for the next two days.

After settling in and getting something to eat, we will depart for the day's tour. Refreshments and lunch will be provided during the day-complements of SDAG (we are bringing all our own food and are responsible for cooking and cleaning-there are no restaurants on the island-any good cooks out there thinking of going?-we need you).

Saturday night is spent at the station, either in bunk house quarters or outside in a tent-your choice (only 32 people can sleep inside, so sign-up early if you don't want to sleep in a tent). Sunday, October 19, we will again go into the field to conclude our geologic reconnaissance of the island. At 4:00 pm we will depart by boat back to Ventura and our waiting bus, which should arrive in San Diego around 10:00 to 11:00 pm.

The cost of the trip is **\$165.00 per person**. This will cover an awesome array of expenses, including charter bus, charter boat, lodging, land transportation, guides, food, guide book, etc... In order to be fair and to get confirmed seating, we will reserve your place when your check for \$165.00 is received. Refunds for the total amount will be issued up to September 1, 1997. After that, no refund, but you can sell your spot to someone else.

Note: The rules for the research station include the following:

"All persons visiting the reserve must be actively engaged in research or instruction. Do not bring children, spouses, or guest sightseers." (Plan accordingly)

Send your checks (made out to SDAG) directly to: **Werner Landry, 3230 Goldsmith St., San Diego, CA. 92106.** More information to come at our March meeting-see you there.

**The San Diego Association of Geologists
1997 Annual Field Trip**

GEOLOGY OF SANTA CRUZ ISLAND



San Diego Association of Geologists

1997 Membership Form

Please print clearly and check your preferred address for the newsletter

Name: _____

Residential Address: _____

Phone _____

Business Address: _____

Phone _____

Dues: _____ Student Member \$5.00
_____ Regular Member \$15.00
_____ Corporate Sponsor \$100.00

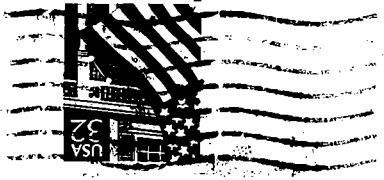
New Member _____ Continuing Member _____

Please enclose a check made payable to SDAG and mail to:

Greg T. Cranham
Hargis & Associates, Inc.
2223 Avenida De La Playa #300
La Jolla, CA 92037

Membership dues may also be paid at the monthly meetings.

SUSAN E. TANGES
1465 E. LEXINGTON AVE #7A
EL CAJON, CA. 92019



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