



SAN DIEGO ASSOCIATION OF GEOLOGISTS

1996 EXECUTIVE COMMITTEE

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MEETING NOTICE WEDNESDAY APRIL 17, 1996

SPEAKER: Albert Stricker, San Diego State University, Geological Sciences
Eric Cathcart, University of San Diego, Marine Science

TOPIC: SDAG 1995 Scholarship Winners - Research Results

PLACE: Holiday Inn
3805 Murphy Canyon Rd.
San Diego, CA 92123
(619) 277-1199

TIME: 6:00-Social Hour
7:00-Dinner
8:00-Program

DINNER: Italian Buffet, all you can eat.

COST: \$20.00

RESERVATIONS REQUIRED by noon Monday April 15th. Please phone in your reservation to Werner Landry at (619) 236-7251. Leave name, number in party and affiliation. Please call Werner if you need to cancel your reservation. If you have special diet requirements, contact Anne Sturz by Monday April 15th.

ABSTRACTS

SLUG TEST STUDY OF THE HYDRAULIC CHARACTERISTICS OF VERTICALLY CONTIGUOUS INTERVALS IN THE S.D.S.U. AQUIFER, NATIONAL CITY, CALIFORNIA.

STRICKER, Albert, San Diego State University

The purpose of this thesis was to determine the hydraulic conductivity of discrete five foot intervals in the aquifer located at the Bonita, S.D.S.U. well field. Slug tests were used to test vertically contiguous five foot intervals of a monitoring well using a system of straddle packers. Two cycles of coarsening downward sediment were revealed by the slug test. A chief goal of this thesis was to compare the slug test straddle packer method to electrical conductivity data and the relatively labor intensive tracer test method.

INTERANNUAL ISOTOPIC VARIATIONS FROM MASSIVE CORALS

CATHCART Eric M., University of San Diego,

Two monthly resolved 20-30 year time series of $\delta^{18}\text{O}$ and $\delta^{13}\text{C}$ from two cores of *Porites lobata* corals from the Kona coast of Hawaii will be presented. The corals, which encompass over 100 years of growth, grew in two different sites: an open ocean site and an embayment site influenced by periodic stream run-off. The influence of local environmental effects on coral stable isotopes must be studied further in order to utilize this proxy for ancient corals.

The cores were slabbed, X-rayed, micro-sampled at 1 mm increments, then analyzed on a stable isotope mass spectrometer. Hawaiian SST and salinity instrumental records were compiled from several sites in the area and show little variability as a result of ENSO forcing. The chronology of the isotopic time series was modeled from correlation to skeletal density banding patterns and instrumental records. Results from the embayment site show a 1.4 cm/year average growth rate and highly variable $\delta^{18}\text{O}$ (-4.88‰ to -3.80‰) and $\delta^{13}\text{C}$ (0.07‰ to -2.60‰), apparently due to run-off effects. Preliminary results from the oceanic site show an average growth rate of 1.6 cm/year. Statistical analyses and correlation of these isotopic time series to instrumental records and elemental paleotemperature thermometers (U/Ca) is currently underway.

ANNOUNCEMENTS

* **CORPORATE SPONSORSHIPS ARE FEWER THIS YEAR THAN PREVIOUS YEARS.** If your company has not renewed its sponsorship, please remind them to do so. Corporate support enhances our ability to provide student scholarships, provide complimentary dinners to students at our monthly meetings, and provide extra beverages at the picnic and field trip.

* **BOOK OF THE MONTH SALE** SDAG publication, *Environmental Perils*, will be offered at the March meeting only (no mail orders please) for the reduced price of **\$2.00 per copy**. Now is your chance to restock your personal library, buy unique gifts for friends and relatives, and make room in our inventory for future SDAG volumes.

* **AAPG ANNUAL MEETING** SDAG will share a booth with South Coast Association of Geologists. Set up of the booth will be on Saturday May 18th. The booth will be in operation May 19th-21st. We are seeking volunteers to attend the booth. Please contact Anne Sturz if you would like to participate (voice 619 260-4096, fax 619 461-2644, email asturz@acusd.edu).

* **May Meeting** Joint meeting with South Coast Association of Geologists, El Adobe Restaurant, San Juan Capistrano. Mexican Buffet.

* **DEADLINE** for announcements to be included in the May SDAG newsletter is April 26, 1996. Please submit your items in writing to Anne Sturz, 6466 Bonnie View Dr. San Diego, CA 92119 or by fax at 619 461-2644.

SAN DIEGO ASSOCIATION OF GEOLOGISTS
PUBLICATION ORDER FORM

QTY	TITLE	RETAIL PRICE	TOTAL
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ORDERING NOTES:

- * 1. Discount off retail price: SDAG members 50%, libraries 20%,
retailers 40% except (s) = short discount of 20%.
- 2. Postage and handling included in retail list price.
- 3. Prices subject to change without notice.
- 4. Allow 4 to 6 weeks for delivery. Make checks payable to SDAG
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