



1994 EXECUTIVE COMMITTEE

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MEETING NOTICE

WEDNESDAY, NOVEMBER 16th, 1994

SPEAKER: Dr. Sarah Gray

TOPIC: Coral Records of Quaternary Climate Change...

ALSO - POSTER SESSION & RAFFLE (Donations for Raffle gladly accepted)

PLACE: The Old Spaghetti Factory 233-4323
275 5th Ave. (5th & K st.).
San Diego, Ca

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

DINNER: Spaghetti with meat sauce & Mizithra Cheese, Salad with Pesto Dressing, Sourdough Bread, Coffee, Tea, Milk, Soda, Wine & Spumoni.

COST: \$10.00 Please make checks payable to SDAG.

RESERVATIONS REQUIRED by noon Tuesday November 15th. Please phone in your reservation to Joe Corones at (619) 492-5034. Leave name, number in party and affiliation. Please call Joe if you need to cancel your reservation, and remember Friday, November 11th is a Holiday for many people. If you have special diet requirements, contact Joe Corones, before the meeting.

SMOKING WILL NOT BE PERMITTED IN THE MEETING ROOM TO CONSERVE THE HEALTH OF OUR MEMBERS. THANK YOU!

ABSTRACT

Sarah Gray is an assistant professor of Marine and Environmental Studies at the University of San Diego. She earned her Ph.D. from the University of California at Santa Cruz and her B.A. from the University of Colorado at Boulder. After finishing her Ph.D. she worked at the USGS Branch of Pacific Marine Geology in Menlo Park and the University of Minnesota on a National Research Council post-doctorate to study Sea-level history and calibration of the radiocarbon time scale using mass spectrometric U-series dating of corals.

Global warming predictions are based on computer models of the climate system. The geologic record of climate change provides the only baseline upon which computer climate models of future global warming can be tested. Important issues that the paleoclimate record can contribute to climate modelling experiments include: 1) the role and response of ocean circulation to past climate change; 2) the stability of tropical temperature over long time scales; 3) the actual importance of radiative forcing to past global climate change; 4) the mechanism of rapid high-periodicity climate fluxes; and 5) whether CO₂ changes have forced or passively responded to past climate change.

Geochemical analysis of fossil corals provide a valuable tool to address some of these critical issues. This presentation will review some recent techniques that are being employed to deduce past temperature and carbon cycle variations from the fossil corals. Paired 14C-U-series dates from deglacial-aged corals drilled from the Republic of Vanuatu will be presented that suggest that ocean circulation changes during the last deglaciation may have been tied to a rapid release of CO₂ from the oceans to the atmosphere about 12,700 radiocarbon years B.P.

SPECIAL ANNOUNCEMENT

1) **SPORTSWEAR CLEARANCE** - The San Diego Association of Geologists is conducting its first annual Fall Fashion Blowout! We have a nice selection of tee shirts, golf shirts, jackets and hats, all at reduced prices. These items will all be displayed at the November and December meetings. Remember, Christmas is just around the corner!!

2) The newest SDAG Publication List is included with this newsletter. Please note that we now have three additional publications available, including the newest Camp Pendleton guidebook.

3) The SDAG 1994 Annual Field Trip was held on Saturday, 29 October, and was a tremendous success. SDAG would like to acknowledge and thank the following individuals for volunteering their time and helping with the field trip: Mike Walawender, Pat Abbott, Eric Frost, Roy Shlemon, Mark Legg and Mitra Fattahipour for providing their technical input and making the stops interesting; Carolyn Glockhoff for coordinating the food and beverages; Kristen Tronvig for coordinating the bus; and Wayne Worthington for helping with the on base logistics. And last but not least if anyone found a silver Cross ball point pen on the field trip please return it to Joe Corones.

4) **ERRATA:** SDAG would like to formally apologize to Dr. Roy Shlemon for misspelling his name in the table of contents of our latest publication. In addition, the correct spelling for Cristianitos fault slipped through the wordperfect "spellcheck". The paper by Dr. Shlemon titled " Cristianitos fault and Quaternary geology, San Onofre State Beach, California", was originally published in 1987 in the Centennial Field Guide, Cordilleran Section of the Geological Society of America, Volume One. The paper titled, "Late Pleistocene Channel of Lower Santa Margarita, San Diego County, California", was originally published in 1979 in the Geologic Guide of the San Onofre Nuclear Generating Station and Adjacent Region of Southern California, Pacific Section, A.A.P.G., S.E.P.M. and S.E.G. Guidebook No. 49.

5) **1995 ANNUAL SDSU ALUMNI FIELD TRIP** - "Mark Your Calender" (if you have a new one) for February 24, 25 & 26th, 1995. We will be camping in the northeastern Borrego area. Additional details will be forthcoming. Contact Lyne Perry, phone/Fax (619) 445-3928 for further details.

6) December SDAG meeting will be on Wednesday December 14th, 1994 (Note, this is the second Wednesday of the month) at the San Diego Museum of Natural History. The speaker will be Thomas "Corona" Demere and the subject will more than likely be related to geology!

7) Deadlines for announcements to be included in the December SDAG newsletter is Monday November 28, 1994. Please submit your items in writing to Joe Corones, 13450 Russet Leaf Lane, San Diego, Ca 92129-4410 or Fax to 619-492-5034.

8) **RECENT EXAMINATION PARTICIPATION** - A combined total of 751 people took the September 1994 examinations, 359 in Sacramento and 392 in Riverside. The breakdown is as follows.

	<u>Sacramento</u>	<u>Riverside</u>	<u>Total</u>
Geology	264	287	551
Geophysics	5	4	9
Eng. Geol.	90	101	191

9) SDAG Elections are just around the corner (December to be exact). So if you would like to become involved in SDAG as an officer of the Executive Committee please contact Joe Corones. As always, your support is appreciated and welcomed. Officers will be elected at the December meeting so plan on attending and casting your vote for the Politically Correct candidate of your choice.

~~SAN DIEGO ASSOCIATION OF GEOLOGISTS~~

ORDER FORM SDAG PUBLICATIONS

<u>QUANTITY</u>	<u>TITLE</u>	<u>COST EACH</u>	<u>TOTAL</u>
_____	Natural History of the Coronado Islands, Baja California, Mexico (1978). Limited Availability	\$10	_____
_____	Natural History of the Coronado Islands, Revisited (1992)	\$10	_____
_____	Landslides in Crystalline Basement Terrain, San Diego County (1988)	\$12	_____
_____	Seismic Risk in the San Diego Region-Proceedings (1989)	\$10	_____
_____	Geotechnical Engineering Case Histories, San Diego County (1990)	\$10	_____
_____	Environmental Perils, San Diego Region (1991)	\$15	_____
_____	Colorado Desert and Salton Trough Geology (1993)	\$12	_____
_____	Map Sets Only- Pleistocene and Eocene Geology of the Encinitas and Rancho Santa Fe Quadrangles (1983, 3 maps)	\$5	_____
_____	Geological Excursions in Southern California and Mexico (Walawender and Hanan, 1991)	\$10	_____
_____	Guidebook for Roundtrip Flight to Colorado Plateau (Shelton, Crowell and Davis, 1979)	\$5	_____
_____	Geology and Natural History of Camp Pendleton United States Marine Corps Base (1994)	\$15	_____
		TOTAL	_____

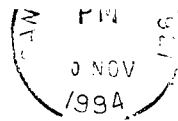
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All Costs Include Shipping

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1550 LOWER LAKE COURT
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