



# SAN DIEGO ASSOCIATION OF GEOLOGISTS

1990 EXECUTIVE COMMITTEE

**CHAIRPERSON**

Diane Murbach  
GeoPacifica  
4403 Manchester Ave., #206  
Encinitas, CA 92024  
(619) 943-0060

**VICE CHAIRPERSON**

John Hoobs  
Geocon Incorporated  
6960 Flanders Drive  
San Diego, CA 92121  
(619) 558-6900

**SECRETARY**

Sue Tanges  
Leighton and Associates  
3934 Murphy Canyon Rd., #B205  
San Diego, CA 92123  
(619) 292-8030

**TREASURER**

Lyne Perry  
Leighton and Associates  
3934 Murphy Canyon Rd., #B205  
San Diego, CA 92123  
292-8030

## MEETING NOTICE

WEDNESDAY, June 20, 1990



**SPEAKER:** Scott Lindvall  
Geologist  
Lindvall Richter Associates

**TOPIC:** "The Seismic Hazard of San Diego Revised: New Evidence for Magnitude 6+ Holocene Earthquakes on the Rose Canyon Fault Zone"

**PLACE:** Bali Hai Restaurant  
2230 Shelter Island Drive  
San Diego

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

**DINNER:** Luau buffet (leg of lamb, sweet and sour shrimp, almond chicken), salad bar, rolls, rice, dessert, coffee, tea, or milk

**PRICE:** \$20.00

**RESERVATIONS REQUIRED!** By noon, Monday, June 18. Please phone in your reservation ASAP to the receptionist at **Leighton and Associates**, (619)292-8030. Please call Leighton and Associates if you need to cancel your reservation.

**SUMMARY:** Trenching across the Rose Canyon fault zone has revealed evidence for Holocene earthquakes. The trench exposed a segment of the fault that is geomorphically well-expressed in aerial photographs that predate the area's development. Several geomorphic features along the fault in the vicinity of the trench indicate right-lateral, strike-slip faulting. The fault zone exposed in the trench is about 2 meters in width and is comprised of multiple strands that displace Holocene alluvium. Based on the displacement of near-surface sediments, earthquakes on the Rose Canyon fault zone have produced surface rupture, a phenomenon typically associated with earthquakes greater than magnitude 6. Some of the faulting observed in the trench exposure is very young, as it post-dates the soil developed on the Holocene alluvial sediments.

Scott Lindvall is currently a geologist at Lindvall Richter Associates, a consulting firm specializing in earthquake sciences and engineering. Scott, whose primary interest is active faulting, received his BS in geology from Stanford University and his MS in geology from San Diego State University. While at SDSU he participated in a joint SDSU/L-DGO effort in mapping cross-fault surface ruptures following the 1987 Superstition Hills earthquake sequence. For his Master's thesis, Scott determined a late Holocene slip rate on the San Andreas fault in the 'Big Bend' and documented evidence for prehistoric earthquakes on the Superstition Hills fault using offset geomorphic features.

## ANNOUNCEMENTS:

1. SDAG is pleased to announce its contribution of \$250 to the Martin Stout Scholarship Fund at California State University at Los Angeles. Dr. Martin Stout is retiring this year and SDAG wishes him the very best!!!

2. **YET ANOTHER CALL FOR PAPERS!!!** The SDAG annual field trip is scheduled for October 20, 1990 and will focus on geotechnical issues covering a wide range of topics relative to engineering geology and geotechnical engineering. The topics will include innovative ways of slope and landslide stabilization, deep fill monitoring, post-construction settlement, fill saturation and ground improvement techniques. Case histories of fill slope and crib wall failures, etc. will also be relevant. Deadline for submission of papers for the guidebook that will accompany the fieldtrip is August 17, 1990. For details on guidelines for paper contact John Hoobs at Geocon Incorporated (phone 558-6900 or fax 558-6159).

3. **VOLUNTEERS NEEDED!!!** The SDSU Geology Department is looking for individuals to man/woman their booth at the Del Mar Fair June 15-July 4. The fair is open 10am to 10pm and volunteers are needed for 3 to 4 hour periods. Volunteers get free admission (that day), lots of fun, and a chance to hang out with rocks and answer questions! Call Leslie at 594-5586 to reserve your time slot.

4. The South Coast Geological Society 1990 field trip will be to the Whipple Mountains and the Colorado River Extensional Terrain. Dr. Greg Davis will lead the trip and participation by other leading experts is anticipated. The trip is scheduled for October 27-28, 1990. Deadline for submittal of papers for the guidebook will be August 15. For more information, call Lavon Lewis at (714)830-4396.

5. SDAG is looking for Corporate sponsors to help in our yearly expenses. If you or your company would like to become a 1990 corporate sponsor and be recognized in our SDAG newsletter, directory, and at the following month's meeting, send a minimum \$100 contribution to SDAG c/o Sue Tanges at Leighton and Associates.

6. The following SDSU geology classes will be offered in the evening for the Fall 1990 semester: Seismic Stratigraphy of the Salton Trough (Geol 528, Frost); Quaternary Geology (Geol 633, Rockwell); Numerical Modeling of Groundwater Flow (Geol 651, Huntley); Geotectonics (Geol 640, Gastil). Spring 1991 classes will include Exploration Techniques in Groundwater (Geol, Huntley) and Geology of Clays (Geol 615, Berry).

7. Oc. Luis Antonio Cupul Magana, Chairman of Geology, Facultad de Ciencias Marinas, Universidad Autonoma de Baja California would like to announce "that the geology department of the U.A.B.C. is working only with academic institutions and museums in California and the rest of the United States, and is not associated with any private business (GEOTECHNICAL) in any kind of joint venture either academic or business related."

8. Deadline for announcements to be included in the July newsletter is June 30. Please submit in writing to Sue Tanges at Leighton and Associates (FAX (619) 292-0771).





1991 GSA SAN DIEGO

THE BIG ONE IS COMING!

**HELP! HELP! HELP!**

The national Geological Society of America meeting will be held in San Diego, October 21-24, 1991! If you would like to volunteer your efforts, please contact Gordon Gastil at (619)594-6211.

San Diego State University would like to bring 100 TIP-TOP Geology students to this national GSA meeting. We need volunteer sponsors for these students (our future colleagues) to provide food and lodging, and to assist them in getting around San Diego during their stay here for the convention. If you can help, please contact Bill Elliott at (619)586-0870 or Gordon Gastil at (619)594-6211.

---

SDAG Publications (available from John Hoobs at Geocon Incorporated):

On the Manner of Deposition of the Eocene Strata in Northern San Diego County (1985) - - - \$10.00

Landslides in Crystalline Basement Terrain, San Diego County (1988) - - - \$12.00

**SAN DIEGO ASSOCIATION OF GEOLOGISTS**  
Leighton and Associates  
3934 Murphy Canyon Road, Suite B205  
San Diego, California 92123

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