



# SAN DIEGO ASSOCIATION OF GEOLOGISTS

## 1992 EXECUTIVE COMMITTEE

### CHAIRPERSON

Sue Tanges  
Southland Geotechnical Consultants  
1238 Greenfield Drive, Suite A  
El Cajon, CA 92021  
(619) 442-8022

### VICE CHAIRPERSON

Lynne Perry  
Leighton and Associates  
3934 Murphy Cyn. Rd, Suite B-205  
San Diego, CA 92021  
(619) 292-8030

### SECRETARY

Joe Coronas  
City of San Diego  
4950 Murphy Cyn. Rd.  
San Diego, CA 92123  
(619) 573-1414

### TREASURER

Phil Rosenberg  
Ninyo & Moore  
10225 Barnes Cyn. Rd. Suite A-112  
San Diego, CA 92121  
(619) 457-0400

## MEETING NOTICE

**MONDAY, February 3, 1992**

Joint meeting with the South Coast Geological Society....

**SPEAKER:** Dr. Sally McGill, Assistant Professor  
California State University, San Bernardino

**TOPIC:** Neotectonics and Seismic Hazard of the Garlock Fault, California

**PLACE:** El Adobe Restaurant  
31891 Camino Capistrano  
San Juan Capistrano

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

**DINNER:** El Presidente Mexican platter, flan dessert, tea or coffee

**COST:** \$19.00 (Please make checks payable to **SCGS!**)

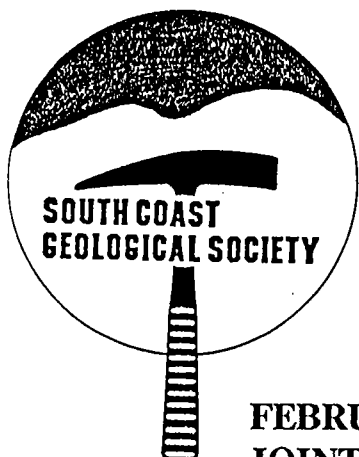
**RESERVATIONS REQUIRED!** by noon **Friday, January 31**. Please phone in your reservation ASAP to the receptionist at **Leighton and Associates**, (619) 292-8030. Please call Leighton and Associates if you need to cancel your reservation.

**SUMMARY:** The Garlock fault is one of the principal active faults in California. It intersects the San Andreas fault near Gorman, and extends about 250 Kilometers east-northeastward to the southern end of Death Valley. Data suggests that the Garlock fault is capable of producing earthquakes with magnitudes of  $M_w = 6.6$  to 7.8.

Sally McGill is an assistant professor of geology at California State University, San Bernardino. In September, 1991, she defended her Ph.D thesis at the California Institute of Technology, where she worked with Kerry Sieh. Her bachelor's degree is from Harvard and Radcliffe colleges. Her primary research interest is field-based study of active faults.

## **ANNOUNCEMENTS:**

1. SDAG would like to thank **ALLIED GEOTECHNICAL** for being a 1992 SDAG Corporate Sponsor. Thanks Allied Geotechnical!!
2. SDAG is still looking for other corporate sponsors to help in our yearly expenses. Corporate contributions are used to sponsor students at our monthly meetings and to upgrade our equipment, etc. If you or your company would like to become a 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 Joe Corones.
3. The 6th Annual SDSU Geology Department alumni field trip will be held on February 21, 22, and 23, 1992, at Split Mountain (Thomas Guide: 406/F3). Bring your family and friends- it's a casual weekend of fun and relaxation. For you die-hard types and those of you who just can't get away from the office and the "G" word, there will be a "rocks and dirt" hike through the gorge (Fish Creek Wash). Please call Bill Elliott at (619) 586-0870 for details.
4. The City of San Diego is requesting geologic information about an area located on the north side of Mount Soledad in La Jolla. The area of interest is roughly bounded by Hillside Drive, Ardath Road, and Torrey Pines Road. Local consultants with information including geologic maps, borehole logs, slope inclinometer data, or structural distress observations are asked to please contact City geologists Rob Hawk (236-7236) or Werner Landry (236-7251).
5. 1992 SDAG membership dues are due in January. A membership form is attached if you have **not** paid your 1992 membership. Please complete and mail to Joe Corones. Dues may also be paid at the monthly meetings.
6. Three courses in various aspects of ground water hydrology will be offered during the Spring 1992 semester at SDSU. These courses are: Geology 596-Applied Hydrogeophysics (Jiracek and Huntley, Thur. 6 - 8:40pm, 2 Saturdays); Geology 651- Numerical Modeling of Ground Water Flow (Huntley, Tues. 6 - 8:40); Geology 675B-Ground Water Contaminant Transport (Thorbjarnarson, Tues. 3:30-5:30, Lab Thurs. 3:30-5:30 or independently).
7. The County of San Diego has recently instituted the Groundwater Ordinance (County Ordinance #7994, New Series). DPLU has also updated the "Standards for Site Specific Hydrogeologic Investigations" for studies required by the ordinance. Copies of each can be obtained at no cost from the DPLU Zoning Counter at 5201 Ruffin Road, Suite B, Kearny Mesa. In addition, "Hydraulic Properties of a Fractured-Rock Aquifer, Lee Valley, San Diego County, USGS Open File Report 90-592" can be obtained from the DPLU Cashier for \$4. The investigation centered on the crystalline fractured-rock aquifer of Lee Valley, a small Hydrologic basin located east of Jamul. Hydraulic properties of the aquifer and hydrologic budget of the basin were studied in detail. For further information contact J. Eric Gibson, County Groundwater Geologist at 694-2960.
8. Call For Papers!! The 1992 SDAG annual field trip will be an update to our 1978 field trip to the Coronado Islands. If you are interested in submitting a paper(s) regarding the geology or natural history of the Coronado Islands, please contact Lyne Perry at 292-8030.
9. Deadline for announcements to be included in the MARCH newsletter is FEBRUARY 25. Please submit in writing to Joe Corones at the City of San Diego, FAX (619) 492-5041.



## SOUTH COAST GEOLOGICAL SOCIETY

P.O. BOX 10244  
SANTA ANA, CA 92711

President: ED HEATH  
Vice P: PATRICK HUBBARD  
Secretary: DIANE MURBACH  
Treasurer: MIKE RENDINA  
Publications: ALAN PACE

### FEBRUARY, 1992 MONTHLY MEETING JOINT MEETING WITH San Diego Assoc. of Geologists

DATE: Monday, February 3, 1992

PLACE : El Adobe Restaurant  
31891 Camino Capistrano  
San Juan Capistrano, CA

TIME: Social Hour 6 pm  
Dinner 7 pm  
Meeting 8 pm

COST: \$19.00

RESERVATIONS REQUIRED! CALL (714) 727-3223- Schaeffer Dixon by 5pm Thursday, January 30  
NOTE LOCATION CHANGE FOR THIS MEETING-- SEE MAP ATTACHED

SPEAKER: Dr. Sally McGill

TOPIC: NEOTECTONICS AND SEISMIC HAZARD OF THE GARLOCK FAULT

The Garlock fault is one of the principal active faults in California. It intersects the San Andreas fault near Gorman, and extends about 250 kilometers east-northeastward to the southern end of Death Valley. Recent field studies indicate that the Holocene slip rate of the central portion of the fault in Searles Valley is 5-10 mm/yr. A study of offset geomorphic features indicates that past earthquakes on the easternmost 90 km of the fault have involved 2-3 meters of left-lateral displacement, whereas earthquakes on the central part of the fault, near Highway 395, may have involved 4-7m of left-lateral slip. This suggests that the Garlock fault is capable of producing earthquakes with magnitudes of  $M_w = 6.6$  to 7.8. The recurrence interval for large earthquakes on the Garlock fault is between a few hundred and a little over 1000 years. The most recent earthquake on the Garlock fault in Searles Valley occurred less than 500 years ago.

Sally McGill is an assistant professor of geology at California State University, San Bernardino. In September 1991, she defended her PhD thesis at the California Institute of Technology, where she worked with Kerry Sieh. Her bachelor's degree is from Harvard and Radcliffe colleges. Her primary interest is field-based study of active faults.

1992 SCGS Membership dues are due! Annual Membership dues are \$15.00. Checks should be made out to "SCGS". A Membership form is attached. Please complete and mail to South Coast or bring to the February Meeting!

This Membership form data will be used to update the 1992 Membership Directory.

SCGS is seeking corporate sponsors to help in our yearly expenses. If you or your company would like to become a corporate sponsor and be recognized in our South Coast newsletter, send a minimum \$50.00 contribution to SCGS.

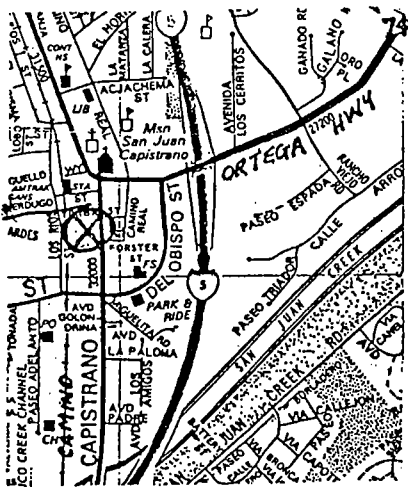
Deadline for announcements to be included in the MARCH Newsletter is February 14. Please submit in writing to Diane Murbach at the City of Oceanside, FAX (619) 966-4164.

**GEOLOGY TRIPS:**

"VOLCANOES OF INDONESIA", July 20- August 10, 1992. The Indonesian subduction zone straddles the equator between Asia and Australia. It is home to more than 400 volcanoes with at least 70 of them still active. Sites to visit will include crater lakes, sulfurous hot springs, snow-capped peaks, belching volcanoes, on the different islands of Bali, Java, Sumatra, Irian Jaya and Krakatoa. For more information contact Dorothy Stout, Cypress College, 9200 Valley View St, Cypress, CA 90630 (W) 714-826-2220 or (H) 310-695-7743 Approximate cost \$3500.00

**EMPLOYMENT OPPORTUNITIES:**

Ninyo & Moore, Geotechnical and Environmental consultants, is actively looking for a Chief Geotechnical Engineer for their Irvine office. Experience with transportation and bridge projects preferred. Please submit resumes in confidence to: Ninyo & Moore, 15375 Barranca Parkway, Suite A-101, Irvine, CA 92718, Attention: Dr. Peter Supko.



EL ADOBE RESTAURANT is on the west side of Camino Capistrano between Del Obispo and Verdugo streets, south of the Mission San Juan Capistrano. FROM THE NORTH, exit I-5 freeway at the Ortega Highway, turn right to the Mission, then turn left on Camino Capistrano. FROM THE SOUTH, exit the I-5 freeway at Valle Road, turn left on San Juan Road (under the freeway), then turn right on Camino Capistrano. Parking is available at the rear of the El Adobe Restaurant.

DATE: Monday, February 3, 1992

**FEBRUARY, 1992 MONTHLY MEETING  
JOINT MEETING WITH San Diego Assoc. of Geologists**

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



**SUSAN E. TANGES**  
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