



SAN DIEGO ASSOCIATION OF GEOLOGISTS

1994 EXECUTIVE COMMITTEE

CHAIRMAN

Joe Corones
City of San Diego
Waste Management Dept
4950 Murphy Canyon Road
San Diego, CA 92123-4325
(619) 492-5034

VICE CHAIRMAN

Phil Rosenberg
TetraTech, Inc.
6405 Mira Mesa Blvd, Ste 100
San Diego, CA 92121
(619) 622-2278

SECRETARY

Anne Sturz
Univ. San Diego
Marine/Environmental Stds
Alcala Park
San Diego, CA 92110-2492
(619) 260-4600 x4481

TREASURER

Tissa Munasinghe
Univ. San Diego
Marine/Environmental Stds
Alcala Park
San Diego, CA 92110-2492
(619) 260-4600 x2674

MEETING NOTICE

WEDNESDAY, JUNE 15, 1994

- SPEAKER:** Dr. Mary Ann Lynch, Scripps Institution of Oceanography
- TOPIC:** Cracking in the Interior of Tectonic Plates: New Evidence from the South Central Pacific
- PLACE:** Tickled Trout 291-5600
Ramada Inn
2151 Hotel Circle South
San Diego, CA
- TIME:** 6:00-Social Hour
7:00-Dinner
8:00-Program
- DINNER:** Western Barbecue Buffet - chicken, spare ribs, salad, corn bread, beans, baked potato, corn-on-the-cob, apple pie, coffee, tea, milk or soft drink.
- COST:** \$20.00 Please make checks payable to SDAG.

RESERVATIONS REQUIRED by **noon Monday, June 13th**. Please phone in your reservation to Anne Sturz, 461-2644. Leave name, number in party and affiliation. Please call Anne if you need to cancel your reservation. If you have special diet requirements (i.e. vegetarian), contact Joe Corones, 492-5034.

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

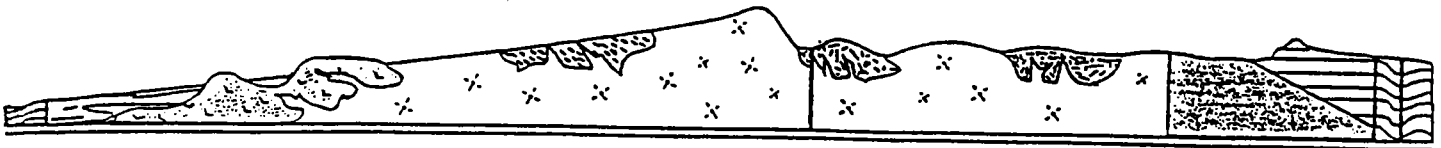
ABSTRACT

Cracking in the Interior of Tectonic Plates: New Evidence from the South Central Pacific

The fundamental principles of crack mechanics are increasingly being applied to the mechanics of cracking in earth materials. Most of this work is based on land and involves cracks varying from microscopic sizes to hundreds of kilometers in length. In the interior of the oceanic plates cracking occurs on an even larger scale than that seen on land, yet the same principles apply. Such large scale cracking has long been thought to be confined to plate margins, but recent discoveries of extensive groups of linear ridges in the South Central Pacific indicate that large scale cracking, involving crack sets thousands of kilometers in length, are widespread in the interiors of oceanic plates. The reason these cracks form is not yet understood, but they indicate that the interiors of oceanic plates are tectonically very active.

ANNOUNCEMENTS:

1. **AEG SCA MEETING:** The June 14 meeting at the Quiet Canyon, Montebello will honor Dr. Martin Stout.
Contributions Requested for the Dr. Martin Stout/AEG SCS Scholarship: The Southern California Section of AEG is establishing a student scholarship to honor Dr. Stout for his contributions to our profession and Organization, as well as his role as faculty advisor to the CSULA student chapter. The Section is soliciting individual and corporate contributions. No amount is too small nor too large, so please send what you can. We would like the scholarship account to be fully funded by our June 14 meeting. Please send checks payable to "AEG Southern California Section" to Robert A. Larson, Vice Chairperson, 6416 Woodley Ave., #5, Van Nuys, CA 91406. Please write on the check that it is for the Stout Scholarship.
2. **Martin Stout** would like to thank all of you for your cards and letters of support, telephone calls, and visits during the last few weeks - it helps tremendously. Many of you know that Martin has been fighting cancer for almost 2 decades and has made a valiant effort, much of it due to his own perseverance and fortitude. Unfortunately it has spread, but fortunately he has no regrets, living the life of a productive geologist and professor and wishes to share that message with all of you.
3. Deadline for the **July SDAG newsletter** is Friday July 1st, 5:00 PM. Please submit your items in writing to Anne Sturz, 6466 Bonnie View Dr., San Diego, CA 92119 or fax to 260-6804.
4. The SDAG July meeting will be a joint meeting with the Inland Geological Society and the Southern California Section of the Association of Engineering Geologists. **NOTE - Meeting date will be Thursday July 21st** and will be at the Temecula Creek Inn. Speakers will be Mr. Jim Gilmore and Mr. Mark Schmoll. The topic will be *Geology, Site Characterization and Design of the Domenigoni Valley Reservoir Project*.
5. The SDSU Geology Department is looking for volunteers to work in their booth at the Del Mar Fair, June 15 through July 4. The shifts are three hours long and you get free entry to the fair. This is your opportunity to broaden the knowledge of geology to the general public. Please call the SDSU Geology Department at 594-5586 if you are interested.
6. SDAG-SDSU-ASCE Geotechnical Section **ANNUAL PICNIC** will be September 10th, 1994. Mark you calendar.
7. The **1994 Annual SDAG Field Trip** will revisit the Geology, Groundwater, and Natural History of Camp Pendleton Marine Base. The field trip is scheduled for **Saturday, October 29, 1994**. We know that many of our members have worked there or at least know someone who has worked there, so lets get motivated and submit some papers (short or long) to SDAG Vice Chairperson and Field Trip Coordinator, Phil Rosenberg (622-2278). Thank you.
8. **Corporate Sponsors through April 30, 1994 include:** Allied Geotechnical Engineers Inc., American Geotechnical, Catlin Engineering Inc., Perry and Nona Crampton, William J. Elliot, Gallagher Drilling Service, Group Delta Consultants, Hargis + Associates, IT Corporation, Barbara Johnston; John Minch and Associates, Pacific Soils and Engineering, Robertson Geotechnical Inc., Tony V. Sawyer Consulting Hydrologist, Daryl Streiff Consultant, Anne Sturz, Woodward-Clyde Consultants, Tetra Tech, Inc., Transglobal Environmental Chemistry, Zeiser Kling Consultants, Inc., Carole Ziegler. **THANKS TO ALL CORPORATE SPONSORS!**
9. SCGS call for papers: Publication and Field trip to the Mojave Desert Region, California. Trip organizers are Diane Murbach and Joan Baldwin. The South Coast Geology Society is seeking manuscripts describing new work which will be published in the field trip volume. Submittals should cover areas in or adjacent to the Mojave Desert region. Please contact Diane Murbach at (619) 275-1462 if you are interested in submitting a manuscript. Rough drafts are due to the editors by June 15th. Deadline for camera-ready submittals is August 1, 1994. Submittals should be sent to: Diane Murbach, SCGS, 4626 Bay Summit Place, San Diego, CA 92117
10. NOTE: If you have an old SDAG publication list, be advised that the Short Course Volume on Landslide Recognition, Investigation and Mitigation is no longer available.
11. SDAG membership now stands at 271 members. If you know someone who has not renewed their membership please remind them to do so. Thanks.
12. **GOURMET GEOLOGY for YOUR PROFESSIONAL ORGANIZATION** - If you have need for a hot, gourmet luncheon prepared, delivered and set up, call Angela O'Malley whose experience includes field trips for the GSA Cordilleran Section field trip in March and Cal Tech - all with outstanding accolades. In the paraphrased words of James Hutton, "Is there no prospect of an end of food service hassles in order to have more field time?" For more information call Ange at 714 527-6238.



~~SAN DIEGO ASSOCIATION OF GEOLOGISTS~~

1993 EXECUTIVE COMMITTEE

JOE CORONES
CHAIRMAN

PHIL ROSENBERG
VICE CHAIRMAN

ANNE STURZ
SECRETARY

TISSA MUNASINGHE
TREASURER

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 | _____ |
| | 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) | \$12 | _____ |
| | Environmental Perils, San Diego Region (1991) | \$15 | _____ |
| | Natural History of the Coronado Islands, Revisited (1992) | \$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 | _____ |
| | TOTAL | | _____ |

Please Make Checks Payable to SDAG
All Costs Include Shipping

Send Order Form To:
SDAG c/o PHIL ROSENBERG
1550 LOWER LAKE COURT
CARDIFF BY THE SEA, CALIFORNIA 92007

SHIP TO:

San Diego Association of Geologists
6466 Bonnie View Dr.
San Diego, CA 92119



Tanges, Susan E.
1465 E. Lexington Ave. #7A
El Cajon, CA 92019