



SAN DIEGO ASSOCIATION OF GEOLOGISTS

1990 EXECUTIVE COMMITTEE

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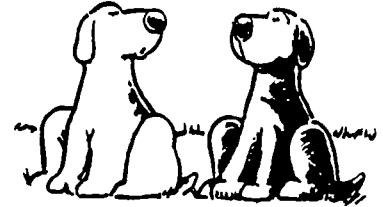
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MEETING NOTICE

WEDNESDAY, July 25, 1990



SPEAKER: Gary H. Girty
Professor of Geology
San Diego State University

TOPIC: "Harper Creek Gneiss, Cuyamaca-Laguna Mountains Shear Zone, Peninsular Ranges, Southern California; Jurassic Mylonitic Plutonic Rocks That May Have Formed in an Extensional Setting"

PLACE: Qwiig's Bar & Grill
5083 Santa Monica Avenue
Ocean Beach, San Diego

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

DINNER: House salad, sourdough bread, sea bass, baked potato, coffee, tea, white chocolate gelato

PRICE: \$19.00

RESERVATIONS REQUIRED! By noon, Monday, July 23. 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 Cuyamaca-Laguna Mountains shear zone, located in the Peninsular Ranges, southern California, is a northeast-dipping structure that has been interpreted to be the result of reverse-fault-sense displacements. Previous workers suggested that the shear zone formed in the Early Cretaceous as a Late Jurassic oceanic arc collided and sutured to a Mesozoic marginal flysch basin that lay adjacent to western North America. Gary H. Girty, working with students at San Diego State University, studied a 5-km² area underlain by the Harper Creek gneiss, one of the most deformed plutons in the Cuyamaca-Laguna Mountains shear zone. The results of this study suggest that the Harper Creek gneiss is a northeast-dipping mylonite that is the result of normal-fault sense displacements rather than the reverse-fault-sense movements suggested by earlier workers. Unpublished U-Pb zircon data, collected as part of a senior thesis project at San Diego State University, indicate a minimum emplacement age of about 166 million years (Middle Jurassic) for the Harper Creek gneiss in the 5-km² study area. Data obtained during this study form a test of the collisional hypothesis for the formation of the Cuyamaca-Laguna Mountains shear zone, and provide constraints on other models which purport to explain the tectonic evolution of the Peninsular Ranges.

Dr. Girty received B.A. and M.A. degrees from Cal State Fresno, Master of Philosophy and PhD degrees from Columbia University in New York, and has been with the SDSU geology department since 1984.

ANNOUNCEMENTS:

1. **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).
2. 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.
3. 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.
4. 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).
5. Deadline for announcements to be included in the July newsletter is July 27. Please submit in writing to Sue Tanges at Leighton and Associates (FAX (619) 292-0771).

EMPLOYMENT OPPORTUNITIES:

1. Geotechnical Engineers - Great opportunity - Openings in our San Diego, Newport Beach, and Sacramento offices. Project level, 3-5 years geotechnical experience, Calif. registration preferred. Excellent salary & benefits. Send resume to Owen Consultants, 10065 Old Grove Road, San Diego, California 92131, (619)695-3150.
2. Geologists or hydrogeologists for a position requiring hands-on management of a group working on environmental issues related to geology, especially aquifer and ground water contamination. Applicants with a BS or MS degree will be considered, a PhD would be a plus as would State registration. The position is with a major environmental engineering firm in San Diego and includes full benefits and a substantial salary depending on qualifications. Please contact Byron Cirlin at (619)450-0104 or FAX (619)450-9139.



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

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