



SAN DIEGO ASSOCIATION OF GEOLOGISTS

1996 EXECUTIVE COMMITTEE

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MEETING NOTICE WEDNESDAY JULY 17, 1996

SPEAKER: Chris Tomlin, RG, REA, Tomlin Technical Services

TOPIC: Geotechnical Environmental Down-Hole Video Imagery

PLACE: Qwiggs Bar and Grill
Santa Monica Ave
San Diego, CA 92107
(619) 222-1101

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

DINNER: Fish of the day, roasted new potatoes, salad, vegetable, rolls, white chocolate chip gelato, coffee, tea.
COST: \$20.00

RESERVATIONS REQUIRED by noon Monday July 15th. Please phone in your reservation to Werner Landry at (619) 236-7251. Leave name, number in party and affiliation. Please call Werner if you need to cancel your reservation. If you have special diet requirements, contact Anne Sturz by Monday July 15th.

ABSTRACT

Used as a compliment to current geotechnical logging practices, Down-Hole Video Imagery (DHVI) provides an examination of subsurface conditions and structures which were not previously available. The system is capable of transmitting an image of geologic structure from a depth of approximately 100 feet using a camera equipped with zero lux sensitivity, 1/3 CCD image sensor, 6 infrared diodes, 78 degree wide angle lens, and a UHF 900 megahertz transmitter, to the surface where it is viewed and recorded.

The element of geologic investigation is observation. Until now, the choice of the geotechnical specialist to view subsurface geologic structure has been limited to first hand viewing by down-hole inspection, i.e. connected to a safety harness, hoist and cable, supporting a light, hard hat, rock pick, Brunton compass, and recording device or paper.

In accordance with OSHA regulations, prior to entrance into the borehole, the geotechnical specialist would have to log the surface cuttings during drilling, performed gas tests of the borehole, provided an emergency standby employee and two-way communication.

Construction Law has recently evoked a startling realization to the geotechnical industry. There is a need for more factual data. DHVI offers physical evidence which can be used to support the opinion of geotechnical experts in construction law litigation.

DHVI was developed specifically for viewing subsurface geologic conditions and structure. The camera can be lowered into a borehole larger than 12 inches in diameter. The borehole can be cleaned of smeared material on the sidewall by a scraper designed by Tomlin Technical Services or by physical removal by the geotechnical specialist performing a down-hole visual inspection. The camera is mounted within a protective enclosure and supported by a cable and winch.

The view of the camera is horizontal and positioned vertically by use of the winch. A swivel platform at the surface enables the camera to be rotated in a 360 degree plane. The DHVI system allows for a steady and accurate viewing of the subsurface geologic conditions.

ANNOUNCEMENTS

* **CORPORATE AND INDIVIDUAL SPONSORSHIPS UP! MANY THANKS TO:** Joe Coronas; Dr. Blayne Hartman and TEG; Hargis & Associates, John Hoobs and Geocon Inc.; Ralph Jeffery and American Geotechnical; Barbara Johnston; Mike Palmer; Robertson Geotechnical, Inc.; Tony V. Sawyer, Consulting Hydrogeologist; Bob Smillie and Group Delta Consultants; David and Jan Steller; Dr. Anne Sturz; Carole Ziegler. **THANKS-THANKS-THANKS-THANKS- THANKS-THANKS THANKS-THANKS THANKS-THANKS THANKS-THANKS!**

Corporate and individual support above and beyond normal membership dues enhances our ability to provide student scholarships, provide complimentary dinners to students at our monthly meetings, and provide extra beverages at the picnic and field trip.

* **BOOK OF THE MONTH SALE** SDAG publication, *Geotechnical Engineering Cases - San Diego County*, will be offered at the July meeting only (no mail orders please) for the reduced price of **\$2.00 per copy**. Now is your chance to restock you personal library, buy unique gifts for friends and relatives, and make room in our inventory for future SDAG volumes. It is a worthy companion volume to the *Environmental Perils* you picked up last month.

* **DEADLINE** for announcements to be included in the July SDAG newsletter is July 25th, 1996. Please submit your items in writing to Anne Sturz, 6466 Bonnie View Dr. San Diego, CA 92119 or by fax at 619 461-2644.

* **SDAG ANNUAL PICNIC** will be held on **Saturday August 24th**. Mark your calendars now.

* **SDAG FIELD TRIP** will be held in late September. This year will feature Coastal Geology of San Diego County. If you have original work you would like to submit to the guidebook, please contact Tissa Munasinghe, 619 260-4099.

* **WELL POINT** is looking for an environmental monitoring well somewhere within the San Diego city limits that is due to be abandon, and upon which they can run some tests without interfering with other studies. The well should be approximately 2-4" diameter and approximately 20-40' deep. If you have or know of a suitable well, please contact Don Sorben at 278-8897.

SOUTH COAST GEOLOGICAL SOCIETY
FIELD TRIP
19-20 OCTOBER 1996



GEOLOGY OF NEOGENE FAULTING AND CATASTROPHIC
EVENTS IN THE SPLIT MOUNTAIN AREA, ANZA-BORREGO
DESERT STATE PARK, CALIFORNIA

DETACHMENT FAULTS

- Miocene detachment fault history of region – Eric Frost, San Diego State Univ. (SDSU) (includes Friday night, Oct. 18, ER Mapper presentation at the campground)

STURZSTROMS

- Stratigraphic history of Split Mountain region
- Miocene subaerial sturzstrom from Vallecito Mountains
- Pliocene subaqueous sturzstrom from Fish Creek Mountains –

Pat Abbott – SDSU
Dennis Kerr – Univ. Tulsa
Dave Rightmer – SDSU

- Flow mechanisms for sturzstroms – Phil Shaller, Woodward-Clyde, Santa Ana

POSTER SESSIONS AND FIELD DEMONSTRATIONS – Alice Cardenas,
Marlene Dean, Gordon Gastil, Gary Girty, Dave Kimbrough, Amy Stinson –
all from SDSU

ACCOMMODATIONS – by South Coast Geological Society officers & volunteers

- Tamarisk Grove Campground, Anza-Borrego Desert State Park – Friday and/or Saturday night
- Five delicious meals (2 breakfasts, 2 lunches, 1 dinner)
- Copious fluids
- New guidebook composed of original and heretofore unpublished research

QUESTIONS:

Dave Seymour (Dames & Moore) (714) 433-2000 x360; snadcs@dames.com

Pat Abbott (619) 594-5591; pabbott@geology.sdsu.edu

SDAG MEMBERSHIP SURVEY

The executive committee is concerned with the low attendance at our monthly meetings. We ask your help in determining the cause and to change the course of the association. We apologize for not providing stimulating meetings that entice your attendance. We want you to know that we are determined to create a pleasant environment to meet your friends, exchange professional information, and to provide interesting presentations.

But we need your input, your help, your participation. SDAG is here to benefit you. This is, after all, your association. Please give your input so that everyone will get something they want out of the meetings. We ask that you attend the next SDAG meeting to discuss the direction you would like the organization to go, what topics you want to hear, places to meet, pricing, format, and anything on your mind.

Please fill out the questionnaire below and bring it with you (or at least mail it back):

1. Check one of the following and give some reasons:

_____ I have not attended lately because: OR _____ I attend regularly, but suggest:

2. How have you liked our **Topics/Speakers** lately? (Check one)

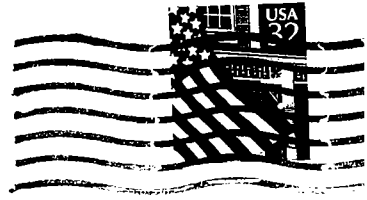
Great Good Mediocre Poor

3. Topic/Speaker suggestions:

4. What would it take to get you to the meetings on a regular basis?

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