

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
Converse Environmental West
9471 Ridgehaven Court, Suite C
San Diego, CA 92123
(619) 268-3360

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

WEDNESDAY, June 17, 1992

SPEAKER: Mark Schmoll
Woodward-Clyde Consultants

TOPIC: Investigation, Design and Construction of the San Diego County Water Authority's Cowles Mountain Tunnel

PLACE: Acapulco Restaurant
8998 Miramar Road
San Diego (578-6390)

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

DINNER: Durango combination platter: beef taco, cheese enchilada, chicken tamale, rice, beans; apple chimi (dessert!); coffee, decaf, or tea

COST: \$15.00 (please make checks payable to SDAG)

RESERVATIONS REQUIRED! by 4pm **FRIDAY, June 12.** Please make reservations ASAP with the receptionist at the Miramar landfill (619) 573-1414. Please call if you need to cancel your reservation.

SUMMARY: Mr. Mark Schmoll is an Associate Engineering Geologist with Woodward-Clyde Consultants. He received his B.S. from Portland State University in 1979 and has been with Woodward-Clyde Consultants since 1980. Mr. Schmoll has been working since 1988 on various aspects of the San Diego County Water Authority's Capital Improvement program, which includes the Cowles Mountain Tunnel.

Mr. Schmoll's presentation will discuss the investigation, design, and construction of the 6,800-foot long Cowles Mountain Tunnel. This 11.3-foot diameter hard-rock tunnel is currently being excavated with a tunnel boring machine by Traylor Brothers, Inc. with Morrison Knudsen acting as Construction Manager. One unique feature of this project is the extremely hard and variable granitic rock types found within the Mission Gorge pluton.

Thank you for not smoking in the meeting room. Your cooperation is appreciated.

ANNOUNCEMENTS

1. **HELP!!! HELP!!!** SDSU geology students are looking for summer work!\$. If you have a summer (or permanent?!) position for these energetic, determined, gifted individuals, please contact Monte Marshall at SDSU (594-1395) for a list of names and resumes (..and with the budget cuts, Monte may be looking too!!! - so he gets first choice!)
2. **THANKS** to all our 1992 corporate sponsors! SDAG is still looking for more of you 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, 13450 Russet Leaf Lane, San Diego, CA. 92129.
3. **Call for Papers!!!** The 1992 SDAG annual field trip will be an update of the 1978 SDAG field trip to the Coronado Islands. If you are interested in submitting a paper regarding the geology or natural history of the Coronado Islands, please contact Lyne Perry at Converse Environmental West. The field trip has been scheduled for Sunday, September 13, 1992.
4. **REG Review, Inc.** is tentatively planning on offering its RG/CEG exam review course (with the cooperation of AEG) in the San Diego and Los Angeles areas in early August. If you would like additional information, please contact REG Review, Inc. at (415) 852-9099 or (510) 339-3771.
5. **VOLUNTEERS** are needed for the Del Mar Fair geology exhibit. If you are able to donate some of your precious time to help out call Leslie at the SDSU geology department office or Tony Sawyer at 464-6242 for details and/or information.
6. The last day for announcements to be included in the JULY SDAG newsletter is June 22. Please submit items in writing to Joe Corones (fax 492-5041)

ENGINEERING GEOLOGY INTO THE 21ST CENTURY (AEG 1992 Meeting)

The 1992 35th Annual Meeting of the Association of Engineering Geologists will be sponsored by the AEG-Southern California Section during the week of October 2-9, 1992 at the Hotel Queen Mary in Long Beach. The Technical Sessions will emphasize Engineering Geology, Seismicity, Environmental Issues and the Consulting Practice. Field trips will lead to the San Andreas fault (Palm Springs to Palmdale), Catalina Island, the Santa Monica Mountains, Orange County, Malibu, the MetroRail, amongst others. For questions regarding the technical program, contact Martin L. Stout, Program Chair, at (213) 343-2409 or -2400. For registration or exhibiting information, contact Rosenberg & Risinger (310) 397-MEET.

1992 SDAG FIELD TRIP

NATURAL HISTORY OF THE CORONADO ISLANDS - REVISITED

The 1992 SDAG field trip will be a boat trip to the Coronado Islands on Sunday, September 13. We are currently attempting to obtain permission from the Mexican Government to land on the South Island. This trip will be an update to SDAG's 1978 field trip, and once again, Tom Lamb has agreed to lead the geology portion of the field trip. The anticipated cost is \$55 - \$65 per person. A continental breakfast and lunch will be provided. The boats HORIZON and SEA HUNT are limited to 80 passengers total. If you are interested in submitting a paper for the field trip guidebook or would like to be a speaker on the field trip, please contact Lyne Perry at (619) 445-3928. If you are interested in attending the field trip, forward the attached form along with a \$50/person deposit to Lyne Perry. Space is limited, so sign up early!!

For those of you who are prone to sea sickness - see your doctor for a prescription of Transdermscop - It Works!!!!

**1992 FIELD TRIP ADDENDUM
FOR SCUBA DIVERS ONLY**

ATTENTION all SDAG Certified SCUBA Divers!!! Sport Chalet Divers is offering a dive trip to the Coronado Islands on Sunday, August 30, 1992 aboard the boat HORIZON. The cost for a one day dive trip is \$65. See the back side of this page for details. Let's get together for this dive trip to get a unique view of the geology, flora and fauna of the Coronado Islands. You do not have to attend the field trip to attend the dive trip. If you are interested, make your reservation through your nearest Sport Chalet store. This is not an exclusive SDAG trip, therefore divers will be accepted on a first come, first serve basis. Contact Lyne Perry for further details.

If you are interested in the dive trip, but you are not a Certified Diver, there is still time to get your Open Water I Certification. Contact your nearest dive shop for details.

**1992 SDAG FIELD TRIP - CORONADOS ISLANDS REVISITED
Sunday, September 13, 1992
Reservation Form**

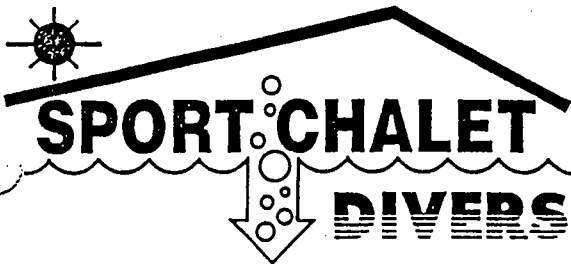
NAME(S) _____

ADDRESS _____

Amount Enclosed \$ _____
(make checks payable to SDAG)

Send form and \$50/person deposit to:

SDAG c/o Converse
Environmental West
9471 Ridgehaven Court, Suite C
San Diego, CA 92123
Attn: Lyne Perry



DIVE BOAT - HORIZON

Thank you for choosing the dive boat Horizon and Sport Chalet. We hope you have an enjoyable trip.

You will find the Horizon located at H & M Landing, 2803 Emerson St., San Diego. To get there, take 8 west or 5 south to Rosecrans south. Turn left on Emerson and go to the end of the street. Allow plenty of time for parking and unloading.

The Horizon is owned and operated by Lou, Sandy and Greg Grivetto. It is 78' long and 25' wide. Its large galley will seat 36 comfortably. It has live and cold storage for game as well as fresh water rinse for cameras.

Coronado Island trips board at 6:00am and depart at 7:00am SHARP! San Clemente trips board the night before at 9:00pm for a 11:00pm departure. Cortez Banks trips board the night before at 6:00pm for a 8:00pm departure.

You'll need to provide all your own dive equipment. Each diver must have their own pressure gauge, depth gauge and time piece. Chemical light sticks are required on all night dives. Air fills to 3000 psi are included in the cost of your trip.

Sport Chalet encourages you to support the boat by not bringing food and drink on board but by using the galley. The food is good and the prices are reasonable. Ice chests are not allowed on board. All meals and snacks are included on multiday trips.

When chartering into Mexican waters (e.g. Coronado Is.) the cost of a Mexican Permit will be added to your galley tab. This applies to everyone on board. The cost usually ranges from \$2 -5

Please bring your certification card.

Sport Chalet will have Divemasters aboard every trip. They are there to ensure your enjoyment and safety. They will conduct a thorough briefing prior to departure and gladly answer any questions which may arise throughout the day.

Have a good time and dive safely.

11 FORENSIC ENGINEERING

FORENSIC ENGINEERING

Environmental Case Histories for Civil Engineers and Geologists



Gerard Shuirman and James E. Slosson

11

Forensic Engineering
Environmental Case Histories for Civil Engineers and Geologists

Gerard Shuirman and James Slosson
Academic Press, March 1992, 296 pp., \$49.95

The timely publication of this book (March 1992) comes during the aftermath of the devastating storms of February 1992 in Southern California. The flurry of forensic investigations resulting from this disaster could go on for a decade.

Forensic Engineering illustrates, through a variety of case studies, investigative techniques, case preparation, and data presentation to prove "reasonableness" or "unreasonableness" of conduct and "causation."

This book will be of great value to those called upon or wishing to volunteer as expert witnesses in liability suits resulting from flood, erosion, landslide, mudslide, or other types of natural hazard-related damage. Forensic Engineering clearly explains the needs of an expert, the relationship of the expert to the client and the attorney, the challenge one will face, and the proper orientation one needs as an expert.

11 APPLIED GROUNDWATER MODELING

APPLIED GROUNDWATER MODELING

Simulation of Flow and Advective Transport



MARY P. ANDERSON
WILLIAM W. WOESSNER

Applied Groundwater Modeling
Simulation of Flow and Advective Transport

Mary P. Anderson and William W. Woessner
Academic Press, December 1991, 381 pp., \$69.95

Creating numerical groundwater models of field problems requires careful attention to describing the problem domain, selecting boundary conditions, assigning model parameters, and calibrating the model. This unique text describes the science and art of applying numerical models of groundwater flow and advective transport of solutes. Some key features of this book are:

- * how to formulate a conceptual model of a system and how to translate it into a numerical model
- * application of modeling principles with special attention to the finite difference flow codes PLASM and MUDFLOW, and the finite-element code AQUIFEM-1
- * model calibration, verification, and validation
- * pathline analysis for tracking contaminants with reference to newly developed particle tracking codes
- * extensive use of case studies and problems

ORDER FORM-DETACH HERE

NAME _____
COMPANY NAME _____
STREET ADDRESS _____
PHONE NUMBER () _____

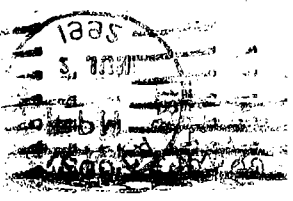
TITLE	RETAIL PRICE	OUR PRICE*	QTY	TOTAL
FORENSIC ENGINEERING	\$49.95	\$44.95		\$
APPLIED GROUNDWATER MODELING	\$69.95	\$62.95		\$
* SHIPPING AND HANDLING WITHIN THE U.S. IS INCLUDED.			SUBTOTAL	\$
			TAX (7.75%)	\$
			TOTAL	\$

Please include your check or money order payable to Scientific Book Outlet with the order form and send it to: Scientific Book Outlet, 1651 S. Juniper St.#111, Escondido, CA 92025.

I would like more information on the following books or subjects: _____

N

SAN DIEGO ASSOCIATION OF GEOLOGISTS
13450 RUSSET LEAF LANE
SAN DIEGO, CA. 92129



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