

## REGISTRATION FORM

# A DAY IN THE FIELD WITH TOM DIBBLEE

to be held at the location of the historic St. Francis Dam

on May 17, 1997, 9:30 am to 3:30 pm

Field trip leaders will include **Thomas W. Dibblee, Jr.,  
J. David Rogers, Ph.D., and Helmut E. Ehrenspeck**

This once-in-a-lifetime event will include a geologic field trip and lectures, historical overview, awarding of the **Dibblee Medal**, a BBQ near the dam site, and an auction of Dibblee memorabilia. Each participant will receive a guidebook and an autographed copy of the Dibblee geology of the Warm Springs Mountain Quadrangle to be released on the day of the field trip.

Tom Dibblee's field trip stops include the Paleocene marine San Francisquito Formation and the controversial contact with the overlying Oligocene nonmarine Vasquez Formation, remarkable megabreccia blocks of crystalline basement within the Vasquez Formation and anticlinally folded Pelona Schist that abuts the dam site. David Rogers will present an historical overview and geologic tour of the dam site and discuss the events leading to the failure of the dam.

**This event will be a fund-raising event for the Dibblee Geological Foundation, a not-for-profit organization. A portion of the cost may be tax deductible.**

**Funds are needed to continue the publication of Dibblee geologic maps.**

**The Dibblee Geological Foundation relies on donations for about 50 percent of the capital needed for publication. The other source of our funding is map sales.**

**We receive no government funding. The publication of these maps will not continue without the support of geologists and other supporters like yourself. Please consider the Dibblee Geological Foundation to be one of your annual recipients of charitable gifts.**

-----  
Name \_\_\_\_\_ Telephone (\_\_\_\_) \_\_\_\_\_ Fax (\_\_\_\_) \_\_\_\_\_

Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Number attending \_\_\_\_\_ @ \$100 each for a total of \$ \_\_\_\_\_

Also included is a donation of \$100, \$500, \$1,000, \$5,000, \$10,000 \_\_\_\_\_

Special recognition will be made on the map of your choice for individual donations of \$500/corporate donations of \$1,000.

Acknowledgment of your reservation and a map showing the meeting place will be sent upon receipt of registration.  
-----

Return the lower portion of this form with your check to: John R. Powell, c/o Fugro, 5855 Olivas Park Drive, Ventura, California 93003-7672, 805/650-7000 or JPowell@Fugro.com

\* SDAG PROGRAMS- Please contact Tissa (number above) if you know anyone who would deliver a good presentation on a current and interesting topic to the SDAG community.

\* SDSU ALUMNI BANQUET- Friday, April 18, 1997 in Casa Real at Aztec Center, SDSU. No-host cocktails at 6:00 p.m., dinner at 7:00 p.m., speaker after dinner. To register, please contact Pia Lincoln at SDSU Geology Dept. 5500 Campanile Dr. San Diego, CA 92182-1020. (619) 594-5587, fax -4372.

\* TENTATIVE PROGRAMS Meetings/programs are third Wednesday of month unless otherwise announced.

May 21	White River Rafting the Colorado	--Sue Tanges
June 18	Well Design	--Mike Palmer
July 16	Geothermal Update- Imperial Valley	
August 23	Annual Picnic	
September 17	TBA	
October	Field Trip	
October 15	TBA	
November 19	Poster Session- Old Spaghetti Factory	
December 17	Paleo Update- Natural History Museum	--Tom Demere

\* SDAG NEWSLETTER DEADLINE is 25th of month. Please mail, fax, or e-mail items to Lowell Lindsay. E-mail [rwwsl4A@prodigy.com](mailto:rwwsl4A@prodigy.com).

\* GEOTECHNICAL PHOTOGRAPHY AND GIS: From Shooting to Digital Use. Short course presented by Woody Higdon, Geo-Tech Imagery International, sponsored by the Ass'n of Engineering Geologists (AEG), 4/19-20/97 at the Irvine Ranch Water District Office. Fee is \$95, postmarked by 4-9-97. For info call Sue Tanges (619) 442-8022 or [s.tanges@worldnet.att.net](mailto:s.tanges@worldnet.att.net).

\* SEISMIC HAZARDS ANALYSIS SHORT COURSE will be hosted by ASE on 5/3/97 in Menlo Park. Fee is \$95 AEG member, \$110 non-member. For more info contact Jack Alt (510) 791-1986 or [EpigeneInt@aol.com](mailto:EpigeneInt@aol.com).

\*SANITARY LANDFILL STATIC AND DYNAMIC SLOPE STABILITY CONFERENCE will be hosted by ASE on 4/10-11/97 in Sacramento. Fee is \$70. For more info call (916) 421-5276.



# SAN DIEGO ASSOCIATION OF GEOLOGISTS

## 1997 EXECUTIVE COMMITTEE

**PRESIDENT**

Tissa Munasinghe  
Mira Costa College  
One Barnard Dr.  
Oceanside, CA 92056  
(619) 757-2121 x6412  
fax 634-7890

**VICE-PRESIDENT**

Werner Landry  
Development Svcs. Dept.  
City of San Diego  
1222 1st Ave. ms 401  
San Diego, CA 92101  
(619) 236-7251

**SECRETARY**

Lowell Lindsay  
Sunbelt Publications  
1250 Fayette St.  
El Cajon, CA 92020  
(619) 258-4905 x103  
fax 258-4916

**TREASURER**

Greg T. Cranham  
Hargis + Assocs. Inc.  
2223 Avenida de la Playa  
La Jolla, CA 92037  
(619) 454-0165  
fax 454-5839

## MEETING ANNOUNCEMENT

**Tuesday July 15, 1997 [Please Note the Date Change]**

**Place:** Red Oak Stake House  
8305 Encinitas Blvd.  
Encinitas

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

*Directions:* East side of Interstate 5 at Encinitas Blvd. exit.

**Dinner:** Option of Tri-Tip or Chicken, barbecued Santa Maria Style; Salad, baked potato or fries, beans, bread, ice cream sundae, tea, coffee.

**Cost:** \$15.00 per person [please make checks payable to SDAG]

**Reservation Required by** Noon Monday July by phone to Lowell Lindsay [619-258-4911, or 258-4905 x103]. Include Name, Number in party, and Affiliation. Please call to cancel if necessary.

**Speaker:** Mr. Mike Palmer, Hargis + Associates, Inc.

**Title:** Innovative Extraction Well Design For Recovery Of Dense Nonaqueous Phase Product

**Abstract:** The potential for downward migration of dense nonaqueous phase liquid (DNAPL) into deeper portions of a saturated hydrogeologic unit has important implications for successful groundwater remediation. Typical DNAPL's include chlorinated solvents. Little information has been published regarding the design of extraction wells that allow DNAPL recovery without simultaneously creating a conduit for cross contamination by vertical migration through the wellbore. An extraction well design for DNAPL recovery has been developed and successfully implemented at a Superfund site located in the West Coast Groundwater Basin near Los Angeles, California.

The mud rotary drilling method was selected for well installation because the high density of the mud in the interval above the water table prevents the migration of DNAPL into the wellbore during construction. The bottom of the well screen was fitted with a section of blank steel casing to act as a sump for the accumulation of DNAPL. A cone-shaped cement basket, developed for the oil industry, was attached to the bottom of the screen to funnel DNAPL into the sump. Prior to setting the casing, a calculated volume of neat cement was tremied to the bottom of the borehole. The casing assembly described above was then quickly lowered into the borehole, displacing the cement and sealing the annulus around the sump to the base of the cement basket. The annulus above the open cement basket was completed with filter pack opposite the well screen and conventionally sealed to the ground surface.

[Continued on other side]

Following well development, monitoring of the well indicated an average DNAPL accumulation rate of less than 0.1 gallon per day (gpd) under static conditions. The average DNAPL recovery rate during pumping of groundwater increased to approximately 10 gpd, several orders of magnitude greater than the static accumulation rate. A 28-day pilot test of the well resulted in the recovery of approximately 300 gallons of DNAPL.

**Biography :** Michael A. Palmer is a Senior Hydrogeologist with Hargis & Associates, Inc. in La Jolla, California. He received his B.S. degree in Geology from the University of Michigan and his M.S. degree in Geology with an emphasis in Hydrogeology from San Diego State University. He is a Registered Geologist, Certified Hydrogeologist, and a Registered Environmental Assessor in the State of California. He has more than 15 years experience supervising and managing soil and groundwater contamination studies for both state and Federal Superfund projects.

## ANNOUNCEMENTS

**TENTATIVE PROGRAMS:** Unless otherwise announced, Meeting / programs are every third Wednesday of the of the month.

August 20	Paleo-liquefaction -- Gerry Kuhn
September 20	Annual Picnic - Mission Bay
October 15	Colorado River Geology -- Sue Tanges
October 17-19	Annual Field Trip [Santa Cruz Island]
November 19	Annual Poster Session - Spaghetti Factory
December 17	Paleo Update - Natural History Museum -- Tom Demere

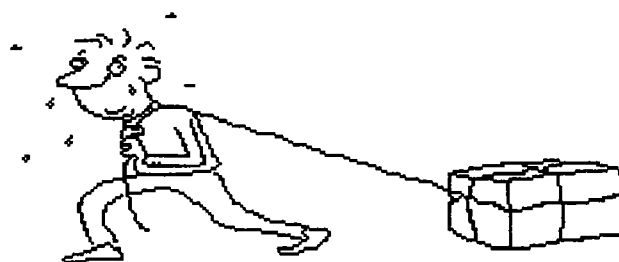
**CORPORATE SPONSORS:** Sincere thanks to these 1997 Corporate Sponsors who make educational assistance to new generation of geologists possible .

Larry Cann; Joe Coronas; Perry and Nona Crampton; Bill Elliot; Jean Ferguson; F&C Drilling; Geocon Inc.; Dr. Blayne Hartman, TEG; Barbara Johnston; H.L. Strickler; Hargis + Associates Inc.; Dr. Anne Sturz; Phil Rosenberg, Tetra Tech EMI; David and Jan Steller; Southland Geotechnical Consultants; Carole Ziegler; Zeiser Kling Consultants, Hugh Robertson, Robertson Geotechnical.

**PLAN AHEAD:** The 1997 Annual SDAG/ASCE Geotechnical Group / SDSU Geology Alumni Geology Picnic will be held on Saturday September 20, 1995 at our usual location. Volunteers will be needed for shopping, site defense, cooking, etc. Anyone interested in helping out please contact Tissa Munasinghe.

**Deadline** for announcements to be included in the August newsletter is Friday July 25, 5:00 pm. Please submit your items in writing to Lowell Lindsay.

**We Noticed that You Don't Have ALL the issues:** Fill your gap in local geology knowledge with SDAG publications! Order form is on the other page.



***We will deliver SDAG Publications to your Door Step!***

SAN DIEGO ASSOCIATION OF GEOLOGISTS  
 POB 191126, SAN DIEGO, CA 92159-1126

PUBLICATION ORDER FORM as of 1-1-97

TITLE	QTY	RETAIL PRICE	TOTAL
COLORADO PLATEAU ROUND-TRIP FLIGHT GDBK Shelton, Crowell and Davis (1979)	_____	\$6.00	_____
LANDSLIDES IN CRYSTALLINE BASEMENT-S.D.COUNTY Evans (1988)	_____	\$4.00	_____
SEISMIC RISK IN THE SAN DIEGO REGION (PROCEEDINGS) Roquemore, Tanges and Wright (1989)	_____	\$4.00	_____
GEOTECHNICAL ENGINEERING CASES- S.D.COUNTY Hoobs (1990)	_____	\$4.00	_____
ENVIRONMENTAL PERILS, SAN DIEGO REGION Abbott and Elliott (1991)	_____	\$4.00	_____
CORONADO ISLANDS NATURAL HISTORY Perry (1992)	_____	\$8.00	_____
COLORADO DESERT AND SALTON TROUGH GEOLOGY Corones (1993)	_____	\$15.00	_____
CAMP PENDLETON GEOLOGY AND NATURAL HISTORY Rosenberg (1994)	_____	\$15.00	_____
ANZA-BORREGO/ WSTD PALEONTOLOGY AND GEOLOGY Remeika and Sturz (1995)	_____	\$20.00	_____
GEOLOGY/ NAT'L RESOURCES OF COASTAL S.D. COUNTY Munasinghe and Rosenberg (1996)	_____	\$16.00	_____

SUBTOTAL AT FULL PRICE \_\_\_\_\_

less discount (40% SDAG members, 20% retailers) (\_\_\_\_\_)  
 plus postage and handling @ \$2.00/book \_\_\_\_\_

INVOICE TOTAL \_\_\_\_\_

SHIP TO: DATE OF ORDER: \_\_\_\_\_ 199\_\_\_\_\_

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_ zip code \_\_\_\_\_  
 phone \_\_\_\_\_

CHECK OR PURCHASE  
 ORDER #: \_\_\_\_\_

1. Prices subject to change without notice.
2. Allow 4 to 6 weeks for delivery.
3. Make checks payable to SDAG at address above.
4. Please call (619) 258-4911 for questions.

-----  
 sdagordr.wk1/uni

San Diego Association of Geologists  
Sunbelt Publications  
1250 Fayette St.  
El Cajon, CA 92020

SAN DIEGO ASSOCIATION OF GEOLOGISTS

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

