

SAN DIEGO ASSOCIATION OF GEOLOGISTS

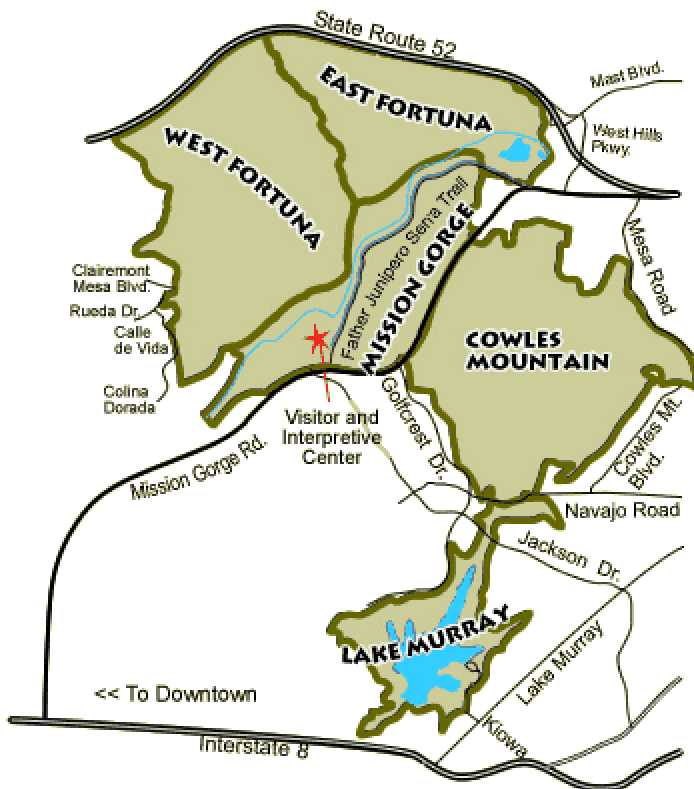
www.sandiegoeologists.org

SDAG MEETING ANNOUNCEMENT

Wednesday July 31, 2002

The Historic Water System of Mission San Diego de Alcalá, San Diego County, California

presented by **BILL WHITE AND GREG CRANHAM**



Where: MISSION TRAILS PARK
(see map)

When: 6:00 pm – Social Hour
7:00 pm – Dinner
8:00 pm – Program

Directions: Take 8 to the Mission Gorge/Fairmount exit. Turn north onto Mission Gorge Road. Proceed down Mission Gorge Road for 4.2 miles. Look for the large wooden park sign on Mission Gorge Road. Turn left onto Father Junipero Serra Trail. The Visitor and Interpretive Center parking lot is on the left just before you get to the pipe gate on Father Junipero Serra Trail.

Dinner: Fajitas Buffet by Eva's Cocina: Beef, Chicken and Shrimp Fajitas served with Corn and Flour Tortillas, Mexican style rice, refried beans, salsa fresca, sour cream and guacamole. Drinks provided by SDAG including beer, wine, and soft drinks

Cost: \$20.00/person, \$10/student

Reservations: Make your reservation **online** through the SDAG website at www.sandiegoeologists.org or call the SDAG Reservation Line at: (619) 521-0165, ext. 190, **no later than 8AM! Monday, July 29th**. Contact Margaret Eggers at (619) 521-0165, ext. 132 with any questions.

To learn more about Mission Trails park, visit www.mtrp.org, or www.desertusa.com/mistrail/mtrails.html

The Historic Water System Of Mission San Diego De Alcalá, San Diego County, California

Abstract: The Old Mission Dam and Flume is an historically significant system of water control structures on the San Diego River, San Diego County, California. The most conspicuous remnant of the system, Old Mission Dam, is located at the western edge of Santee in El Cajon valley, just upstream from where the river enters Mission Gorge, about six miles upriver from Mission San Diego de Alcalá. This system, designed and built from the late 1700s to the early 1800s by Franciscan missionaries and Kumeyaay Indians affiliated with the Mission, was intended to provide a reliable year-round supply of water to Mission San Diego and to the irrigated fields supplying crops to the Mission and the Presidio. This presentation will review the physical, geologic and historical setting of the dam and flume, and will describe the findings of our research since late 1999, when a preliminary report was published by SDAG.

Old Mission Dam, also called Padre Dam, is considered to be of significant historic value and is a registered landmark at the national, state and local levels and is listed in the National Register of Historic Places. The dam itself remains largely intact, but the outlet works, other appurtenances, and much of the flume that directed water to the Mission fields have either been destroyed or are inaccessible. Since 1999, an additional 1,000-foot section of the flume has been located, and has been surveyed to estimate its gradient. Review of historic and aerial photography has clarified water management features around the Mission itself, as well as more accurately defining the flume's course through and downstream of Mission Gorge. Comparison with other water systems of the same period in New Spain, both by field observations and by review of published research, has considerably aided our understanding of the functional appearance and performance of the Mission water system.

The long-term objectives of our ongoing research include developing a conceptual model of the water system as it operated during the most productive period of the Mission, resolving some of the discrepancies noted in the published literature based on field observations of the remaining structures, and proposing preservation measures and interpretive programs or exhibits that would enhance the educational value of the ancient water system to the public.

Speakers: Bill White and Greg Cranham

Bill White, an artist & writer, began researching the San Diego Mission waterworks system in 1997. He has published a handful of articles on various historic subjects since then. Three years ago he co-founded the California History & Culture Conservancy. The goals of the organization include researching, presenting and conserving California's rich and culturally diverse heritage. Also the organization assists other historic and cultural organizations with exhibits, events, graphic design, affordable hi-tech media including webdesign & multimedia presentations, recently winning an award for one of his websites. He graduated from UCSD with a degree in anthropology, and is currently working on developing his new organization, along with related work in writing, art, design and photography. Also his organization is now closely involved in developing the San Diego River Park concept and watershed plan.

Greg Cranham, RG, CEG, has been a hydrogeologist at Hargis + Associates, Inc., for over 11 years. He holds a bachelor's degree in geology from San Diego State University. In the late 1980s, he worked for Lockwood-Singh & Associates in San Diego and Los Angeles. Cranham has published several papers through SDAG, on topics including the geology of the San Onofre Mountains in Camp Pendleton, the response of coastal groundwater to tidal influence, and the historic Mission Dam and Flume. He was elected to the SDAG Executive Committee in 1997, and served as SDAG President in 2000.

ANNOUNCEMENTS:

MARK YOUR CALENDARS for August 21st!!

SDAG is pleased to host the Dibblee Foundation presentation of the 2002 Dibblee Medal to Dr. R. Gordon Gastil

This presentation will be made during our August meeting at the Chula Vista Nature Center. Make sure to mark your calendars for AUGUST 21st, and join us at this beautiful setting.

It should be a memorable evening!

DO YOU HAVE AN ANNOUNCEMENT?? Do you have an event, job opening, field trip or other announcement you would like to share with our members?? Just call or email our SDAG Secretary, Margaret Eggers at 619-521-0165 OR meggers@hargis.com.

2002 SDAG Dues: Join SDAG! A membership form may be downloaded from the web site: www.sandiegogeologists.org.

SDAG NEWSLETTER IS DIGITAL! If we don't have your e-mail address, or your email address changes, or if you have problems with the electronic format please contact Margaret Eggers at meggers@hargis.com, or call at 619-521-0165, ext. 132.

SDAG Wear: - Monte has a variety of shirts, hats, visors and even a nice vest with the SDAG logo. A small selection is available for purchase at the meetings; all SDAG wear can be ordered from Monte.

SDAG Scholarships: - Please see Bob Stroh regarding potential candidates for 2002 SDAG scholarships.

SDSU Geology Department Seminar Series – Wednesday Afternoons - The seminar announcement page is at: www.geology.sdsu.edu/seminars/

2002 CORPORATE SPONSORS

THANK YOU!! to ALL our 2002 Corporate Sponsors! And a Special THANK YOU! to Geotechnics, Inc. for their \$1000 contribution to SDAG. A significant portion of the SDAG operating budget is provided by corporate sponsorship. Please consider becoming a Corporate Sponsor! In addition to monthly recognition for your contribution, you will be entitled to a free internet "link" from the SDAG Website, and all Corporate Sponsors are listed in the front of the annual SDAG Field Trip Volume.

Geotechnics, Inc.	
David and Jan Steller	Dr. Anne Sturz
Katy Freese	Eldon Gath, Earth Consultants Inc.
Carole L. Ziegler	Hargis + Associates, Inc.
Joe Coronas	Terra Costa Consulting Group, Inc.
William J. Elliott	Dr. Margaret R. Eggers, CHG
Curtis R. Burdett	Don Sorben
Pat Abbott	Pacific Soils Engineering, Inc.
Environmental Business Solutions	Testing Engineers – San Diego, Inc.
Geocon Incorporated	Southland Geotechnical Consultants
Ninyo and Moore	Lowell Lindsay, Sunbelt Publications
Carolyn Glockhoff	Rob Hawk
Robert Walters Equipment Rentals	

2002 EXECUTIVE COMMITTEE

PRESIDENT - Bob Stroh; *Kleinfelder, Inc.*; Ph: (858) 320-2000; fax: (858) 320-2001; rstroh@kleinfelder.com

VICE PRESIDENT - Patrick Brooks; *Anteon Corp.*; Ph: (619) 532-0930; fax: (619) 532-0995; brooksgp@efdsw.navy.mil

TREASURER - Monte Murbach; *Southern California Soil & Testing*; Ph: (619)-280-4321; fax: (619)-280-4717; mmurbach@scst.com

SECRETARY - Margaret Eggers; *Hargis + Associates, Inc.*; Ph: (619)-521-0165; fax: (619) 521-8580; meggers@hargis.com

PUBLICATIONS - Lowell Lindsay; *Sunbelt Publications*; Ph: (619) 258-4911 x111; fax: (619) 258-4916; llindsay@sunbeltpub.com

WEBMASTER - Carolyn Glockhoff; Ph: (858) 549-3396; carolion@znet.com

Upcoming 2002 Meetings:

August 21 st	"Mina El Fenomeno, Sierra Jaurez, Baja California, by Pat Brooks and Doug Peeler, and Dibblee Medal Presentation, Chula Vista Nature Center
September 21-22	SDAG Field Trip to Baja California
October 16 th	Joint Meeting with Inland Geological Society, Temecula Hungary Hunter
November 20 th	"Geotechnical Input to Tunnel Construction Projects," by Dr. Ronald Smith of Kleinfelder, Location Tom Hams Lighthouse
December	Annual Holiday Meeting

FIELD TRIPS!

SDAG 2002 Field Trip – SEPTEMBER 21st and 22nd! The 2002 SDAG Field Trip that will be a joint field trip with Universidad Autonoma de Baja California (UABC) in Ensenada. Jorge Ledesma Vasquez, Geology Chairman, will sponsor coastal geology stops, including the Agua Blanca Fault at Punta Banda. Stops in Sierra Juarez (south of Tecate) will include the abandoned scheelite mine, El Fenomeno, that features granite pegmatite, skarn, and hydrothermal minerals, and Dr. Dave Kimbrough will sponsor a stop on La Posta-type intrusions. Details are being worked out for the Estero Beach Hotel to host our group on Saturday evening. They can cater to a large group and provide a room for a presentation. Rates are very reasonable. It is a nice place, but overnighting at the hotel will be more expensive than unrolling your sleeping bag. The hotel allows campers (not tent camping). If this idea seems too expensive, please let me know. Once the final cost is estimated, an email registration form will be sent out. Carpooling is a must and participation will be limited to about 75.

SCGS 30th Annual Fieldtrip: Come for the Wine Stay for the Faults: Geology, Tectonic Geomorphology, and Groundwater Resources of the Santa Barbara Wine Country.

October 12-13th. Join the South Coast Geological Society for a great weekend in the Santa Barbara wine country! On Saturday, we will come away with a much better appreciation of the role of geology in the development of the Santa Barbara wine region of the Santa Ynez Valley. We will come away with a much better understanding of the wines too. Our leaders in this field will be Dr. Merilark Padgett-Johnson, professor of Viticulture and Enology at Alan Hancock College, Dr. Daniel Roberts of Kendall-Jackson Winery Estates and Mr. Bob Johnson a vineyard director of ~ 1600 acres of wine grapes in Santa Barbara. We will also have some stops like a landslide-dammed lake, the Little Pine faults zone, and even some highly abused rocks.

On Sunday, we will visit the La Conchita Ranch and discuss the fascinating landslide (and legal and groundwater) history impacting this elevated failing, marine terrace and sea cliff. We will also explore the active faults and folds along the Santa Clara River, including recent paleoseismic studies of the San Cayetano fault that appear to point to it as the source of the 1812 Santa Barbara earthquake. Our leaders for Sunday include Tom Rockwell, Bob Yeats, Larry Gurrola, Eldon Gath and other surprise visits to be announced in the near future. We will be camping at the Sage Hill Group Campground along the Santa Ynez River enjoying all benefits of a typical SCGS field trip gathering. **CALL FOR PAPERS:** At this time we invite you to participate

by submitting technical papers or other suggestions that would be appropriate for this event. Contact Marina West at (949) 458-8877 or marinawest@cox.net for further information.

POSITIONS AVAILABLE:

- **ENVIRONMENTAL ASSESSOR - Geotechnics Incorporated** is seeking an environmental assessor. Must have experience in the preparation of ASTM Phase 1 Environmental Site Assessments. Should be familiar with preliminary endangerment assessments for school sites. Be familiar with Department of Health SAM manual guidelines. Excellent environment, benefits & salary. Please email resumes to ldromine@geotechnicsinc.com or fax to (858)536-8311.
- **Geocon Consultants, Inc.**, a San Diego-based environmental services firm, is seeking **Senior Staff Geotechnical Engineer** with 2 to 4 years experience. BSCE required, MSCE preferred. Registration desirable. Previous experience in land development a plus. **Project Geotechnical Engineer** with 3 to 5 years experience. BSCE required, MSCE preferred. Registration required. Experience in land development a plus. **Engineering Field Technician** with 2+ years experience desired but not mandatory. Land development and/or hillside experience a plus. E-mail resume to hr@geoconinc.com or fax (858) 558-6159 or mail to Human Resources, 6960 Flanders Drive, San Diego. 92121. **Geocon, Inc.** is a **SDAG Corporate Sponsor**.
- **STAFF ENGINEERS & SOIL TECHNICIANS** – Southern California Soil & Testing, Inc. (SCST) has 2 - 3 positions available for experienced staff engineers and soil technicians with several years experience towards registration and certification. SCST offers a comprehensive compensation and benefit package, and the opportunity to work on a wide range of projects. Submit resumes in confidence to SCST, 6280 Riverdale Street, San Diego, California 92160-0627, Attn: Steve Jensen, or fax to (619) 280-4717.
- **Ninyo & Moore** has the following positions to be filled in San Diego:
Project-level Geotechnical Engineers and Geologists (5+ years experience)
Staff and Senior Staff-level Geotechnical Engineers and Geologists (2+ years experience)
Staff and Senior Staff-level Environmental Scientists, Geologists and Engineers (1+ years experience); **Field Technicians** with appropriate soils and materials testing certifications;
Deputy Inspectors for concrete, masonry, welding and structural steel. ICBO certification required, DSA and City of San Diego certification a plus. Please submit resumes in confidence to the Corporate Personnel Director at: Ninyo & Moore, 5710 Ruffin Road, San Diego, California, 92123, or via e-mail at careers@ninyoandmoore.com. EOE. **Ninyo & Moore** is a **SDAG Corporate Sponsor**.

•

**San Diego Association of Geologists
c/o Margaret R. Eggers, PhD, CHG
Hargis + Associates, Inc.
2365 Northside Drive
Suite C-100
San Diego, CA 92108**