

SAN DIEGO ASSOCIATION OF GEOLOGISTS

www.sandiegogeologists.org

SDAG / AEG JOINT MEETING ANNOUNCEMENT

WEDNESDAY, JULY 15th, 2009

(SDAG “regular” meeting date!)

GEOTECHNICAL ISSUES FOR DESIGN OF THE PROPOSED BORINQUEN DAMS EXPANSION OF THE PANAMA CANAL, PANAMA

Presented by

David Schug, Principal Geologist, URS Corporation

Where: Catalina Room (southern end of MVCC) **SEE MAP**
Marina Village Conference Center
1936 Quivira Way, San Diego, CA 92109

When: 5:30 pm – Social Hour
6:30 pm – Dinner
7:00 pm – Program

Directions: FROM INTERSTATE 5: Take the SEA WORLD DRIVE exit. From SEA WORLD DRIVE, take WEST MISSION BAY DRIVE on your right. When you see the large green sign that says QUIVIRA ROAD, get in the farthest left of the two left turn lanes. Turn left, go one very short block and turn left again. Drive about one half mile and MARINA VILLAGE will be on your right.

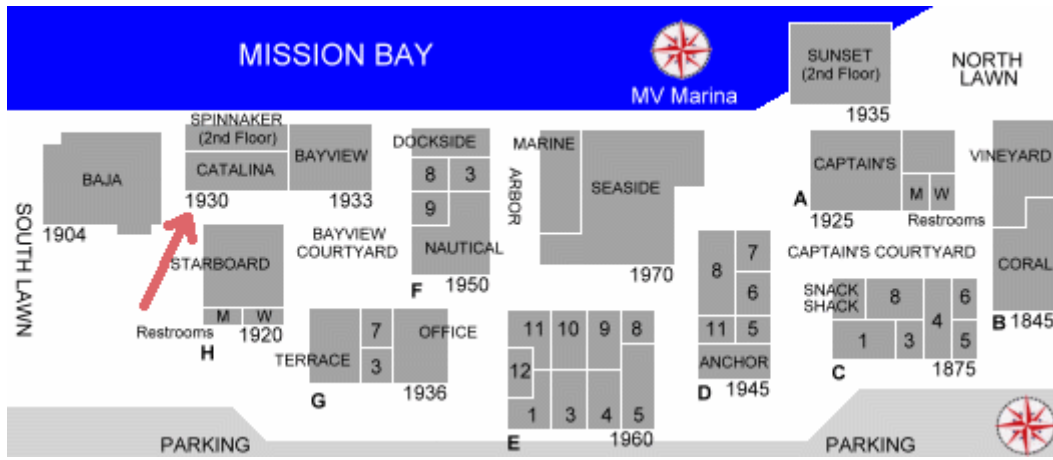
FROM INTERSTATE 8: Take the WEST MISSION BAY DRIVE exit to the right. You will be on INGRAHAM STREET for a short distance from which you will take the next exit marked WEST MISSION BAY DRIVE on your right. When you see the large green sign that says QUIVIRA ROAD, get in the farthest left of the two left turn lanes. Turn left, go one very short block and turn left again. Drive about one half mile and MARINA VILLAGE will be on your right.

Dinner: Caesar salad, carved baron of beef, oven herb roasted chicken, oven roasted baby red potatoes, green beans almandine, baked rolls/breads.
Note: a special entree will be prepared for vegetarians, but it will not be put out on the buffet; vegetarians should specifically request the vegetarian entree when they visit the buffet.

Cost: \$25 for members, \$30 non members. Students \$20

Reservations: Make your reservation **online** at www.sandiegogeologists.org **no later than noon, Monday, July 13th**.

**RESERVATIONS CANNOT BE ACCEPTED AFTER MONDAY AT 12 NOON.
IF YOU DO NOT MAKE A RESERVATION, WE CANNOT GUARANTEE YOU A MEAL.**



2009 SDAG MEETING SCHEDULE - Mark your Calendars!

Meetings are usually on the 3rd Wednesday of the month but may change to accommodate speaker and meeting place schedules. Check here for updates!

August 3 rd	Dr. Edmund Medley , PE, CEG, F.ASCE, Jahns Lecturer (joint meeting with AEG)
September	Candace Kohl , "Meteorites"
October	Annual field trip preview

2009 EXECUTIVE COMMITTEE

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David Schug, Principal Geologist, URS Corporation

Dave Schug was one of several URS Corporation geologists involved in geotechnical studies for design of the proposed dams. He worked with Panama Canal Authority (ACP) geologists during the site characterization studies and borrow material investigations. At the request of the ACP, he convened a panel of paleoseismic experts in Panama to review the results of fault trenching investigations. He was able to observe some of the preliminary cuts made during the early stages of PAC construction.

Dave received his B.S. and M.S. from San Diego State University. Dave is a Principal Geologist at URS (formerly Woodward-Clyde) in San Diego where he has worked for the past 30 years. He has recently been involved in construction monitoring of the 10-mile long San Vicente Pipeline tunnel, geotechnical investigations for the proposed San Vicente Dam Raise, and offshore explorations for beach sand replenishment.

“GEOTECHNICAL ISSUES FOR DESIGN OF THE PROPOSED BORINQUEN DAMS EXPANSION OF THE PANAMA CANAL, PANAMA”

The new Borinquen Dams will be part of the Pacific Approach Channel (PAC) which will provide navigation access from the Gaillard Cut section of the Panama Canal to the new Pacific Post-Panamax Locks. The

dams will consist of four main embankments with the longest (Dam 1E) extending about 2.7 km. The alignment of the proposed dams extends across the Pedro Miguel and Miraflores faults, as mapped by Stewart and others (1980). Recent trenching investigations indicated these faults are active. The dam foundations will be in Miocene volcanoclastic rocks including the Pedro Miguel Agglomerate and sandstone and siltstone of the La Boca Formation. The proposed dams will be zoned rock fill dams. Highly weathered overburden material will be used for core material.

This presentation will provide an overview of the geologic and seismic setting of the canal expansion, geotechnical explorations, fault rupture and slope stability and issues for design of the dams, and ongoing construction of the PAC. For an overview of the project, go to:

<http://enr.construction.com/features/environment/2007/archives/ss/070425a/070425a.asp>

Secretary's ~~Presidents~~ Corner, JULY 2009

Scott has been in Southern Africa since shortly before our June meeting

We had another great joint meeting with the swallows in San Juan Capistrano. Eighty-six people were on hand to be enlightened by Pat Abbott.

The July meeting is our second joint meeting in a row, this time with AEG. Dave Schug of URS will be speaking about the geotechnical issues related to enlarging the Panama Canal. I took a peek at the web site listed above, and it looks like quite a challenge.

The August meeting will be another early one, this time August 3rd (Monday), at which we will be hosting the Jahns Lecturer at another joint meeting, again with AEG. More info will be provided at our July meeting, right Bob Stroh?

Note that we have a couple of young geologists looking for employment: Daniel Meeh and Jake Lippman. Their particulars are below.

Also, I'm sorry to report that long-time SDAG member Don Lynn has passed away. He was retired from Southwestern College where he taught both chemistry and geology. He was very helpful to me when I began teaching at Southwestern College almost five years ago, passing along many guidebooks from Southwestern College geology field trips in the 70's and 80's. I spoke to him several months ago, when the E-mail address I had for him gave me a "bounce" message. His presence at our meetings will be missed.

All the best, Phil Farquharson, SDAG Secretary

2009 CORPORATE SPONSORS - THANK YOU!!

Corporate sponsors provide a significant portion of SDAG's operating and scholarship budget. In addition to monthly recognition for your contribution, you are entitled to a free Internet link from [SDAG's Website](#). We also list Corporate Sponsors in our annual SDAG Field Trip Volume.

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ANNOUNCEMENTS

CALL FOR PAPERS:

"Mylonitization and associated low angle/detachment faulting in the northern Santa Rosa and southern San Jacinto Mountains, California."

To be published in association with the

2009 San Diego Association of Geologists Annual Field Trip

November 7th and 8th, 2009

Co-organizers:

Bryan Miller-Hicks, Vice President, SDAG
Independent engineering geology consultant
bryanmillerhicks@gmail.com 619-733-3724

Dr. Monte Marshall, Ph.D.
Emeritus Professor of Geologic Sciences, SDSU
mmarshall@geology.sdsu.edu 619-795-9871

SCOPE: Papers addressing topics related to mylonites, geology, structural geology, metamorphism, metasediments, faulting, folding, meta-structures, biology, environmental issues, geography, native American culture, and history of the Deep Canyon, northern Santa Rosa Mountains and southern San Jacinto Mountains

TIMELINE: Email a statement of interest & topic to the co-editors as soon as possible

Manuscripts due: April 15th, 2009
Revised manuscripts due: July 15th, 2009
Target publication date: late September, 2009

For further information, contact bryanmillerhicks@gmail.com or mmarshall@geology.sdsu.edu



"The Ocean, the Wine and the Valley"

An international symposium to honor the life and work of Antoine Badan
November 16-18, 2009. Ensenada, B. C., Mexico



Oceanographers, wine-makers and environmentalists are invited to submit contributed (oral or poster) presentations for this unique, critical-discussion gathering. *Main topics include:* physical oceanography of the Gulfs of Mexico and California, enology and viticulture related to the wines and vineyards of California and Baja California, and environmental sciences with emphasis in the sustainability of the Guadalupe Valley. Special consideration will be given to works related to two or all three of the above topics. Submissions will be accepted until the end of August. Confirmed participants include:

P. Niiler, SIO/UCSD.
K. Brink, WHOI.
A. Moore, UCSC.

A. Lugo Fernández, MMS.
C. Winant, SIO/UCSD.
M. López, CICESE.

M. Hendershott, SIO/UCSD.
H. D'Acosta, Casa de Piedra.
E. Chassignet, COAPS/FSU.

M. Lavín, CICESE.

F. Martain, Cavas Valmar.

A. Provenzale, ISAC/CNR.

Contact: Julio Candela (jcandela@cicese.mx), Julio Sheinbaum (julios@cicese.mx) or
Edgar Pavia (epavia@cicese.mx). <http://www.cicese.edu.mx/>



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SEEKING JOB OPPORTUNITIES!

Daniel Meeh I am interested in obtaining an entry level position in a Geology related field. I have received my Bachelors of Science degree in Geology from Wheaton College and I am looking forward to putting my knowledge to practical use. I am also a dedicated, driven individual who desires excellence in everything that I do. Not only am I well educated, but I am willing to learn a job and give above and beyond what is expected. I am confident that I can be a great asset to any organization. I appreciate any help you can offer and I would very much like to discuss my qualifications with you in person. I can be reached at 281-701-0826 or by e-mail at Daniel.Meeh@my.wheaton.edu.

Jake Lippman I am looking for an entry-level position as a geologist. In particular, I am interested in hazard assessment (seismic, landslide, flooding, etc.) I am a recent graduate with a BS in Geology from UC Davis and an MA in Climate from Columbia. Please e-mail me with any employment opportunities at jdl2129@columbia.edu or call (415) 672-0918. Thank you very much!

JOB OPENINGS!

Brian F. Smith and Associates (BFSA) has immediate openings for several qualified individuals including **Paleontological Monitors**, and **Project Paleontologists** for projects in San Diego, Riverside, and San Bernardino Counties. Positions require a B.A. or M.A. in geology, paleontology, or a related field, and field experience in southern California. Current City of San Diego Paleontological certification preferred, or must be able to become certified immediately. Compensation will depend upon qualifications and ability. Please send or fax a current resume, or vita and references to resumes@bfsa-ca.com or fax to 858-679-9896.

Brian F. Smith and Associates (www.bfsa-ca.com) offers consulting services pertaining to all aspects of paleontology, archaeology, biology, history, air, traffic, noise and investigations throughout the southwest, primarily in southern California. The combined experience of the principal consultants and associates represents over 100 years of involvement in the study of the history and prehistory of this region. BFSA's capabilities are highlighted by the range of current projects, including construction monitoring, data recovery mitigation programs, historical structure assessments, surveys and evaluations for both the California Environmental Quality Act (CEQA) and Section 106 of National Historic Preservation Act (NHPA).

URS Corporation, ranked number one on Engineering News-Record's list of the Top 500 Design Firms for Seventh consecutive year is a leading provider of planning, design, systems engineering and integration, technology development, program and construction management, and operations and maintenance services to federal, state and local government agencies in the U.S., Fortune 500 corporations worldwide and government clients in Europe and Asia/Pacific. We're currently looking for a Geologist in our San Diego, CA office.

URS30335 – Geologist/Engineer

Minimum Requirements: Bachelors Degree with 2+ years of experience in the environmental consulting industry or related business. Good written and verbal communication skills, able to work independently and familiar with local regulatory guidelines (DEH, RWQCB, DTSC). Valid drivers license is required due to some travel to/from sites as needed.

Job Description: Assist Project Manager in conducting Phase I and Phase II Site Assessments and oversight of remedial programs. Ability to successfully complete the following:

Manage small projects from start to finish with limited supervision, familiar with a variety of invasive drilling/subsurface investigation techniques, log borings in accordance with USCS, install monitoring wells in accordance with DEH guidelines, provide fieldwork oversight of subcontractors, prepare work plans, familiar with laboratory analyses and waste characterization criteria, familiar with human health screening criteria, interpretation of geologic and chemical data for surface water, soil, soil gas and groundwater and to assist with preparation of reports summarizing field procedures and results.

URS 33917 – Geologist/Engineer

Minimum Requirements: Bachelors Degree with 2+ years of experience in the environmental consulting industry or related business. Good written and verbal communication skills, able to work independently and familiar with local regulatory guidelines (DEH, RWQCB, DTSC). Valid drivers license is required due to some travel to/from sites as needed.

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URS Corporation is an Equal Opportunity Employer and strongly supports diversity in our workforce. M/F/V/D. We offer competitive salaries and a comprehensive benefits package. For immediate consideration please submit your resume online at www.urscorp.com and refer to **Requisition # URS30335** or send your resume to mike_blackmore@urscorp.com

The San Diego Natural History Museum is run and operated by the San Diego Society of Natural History, a private non-profit scientific organization incorporated in 1874. The Museum's mission is to interpret the natural world through research, education and exhibits; to promote understanding of the evolution and diversity of Southern California and the peninsula of Baja California; and to inspire in all a respect for nature and the environment.

Within the Museum, the Department of PaleoServices (DPS) specializes in paleontological resource management. Our focus is on the recognition, recovery, and preservation of the significant and unique paleontological resources that occur in this region. The activities of DPS are helping to preserve significant fossil assemblages and are directly contributing to the growth of the important paleontological research collections at the Museum. We are currently looking to fill the following position:

Paleontological Field Manager: Position responsibilities include coordination of paleontological field activities (i.e., supervision of field monitors in prospecting for and collection of fossils and the recording of stratigraphic, taphonomic, geographic, and topographic data) and production of final project reports that summarize the methods and preliminary results of paleontological salvage activities. Other duties include generation of initial discovery letter reports for City, County, and/or State agency managers and generation of paleontological resource assessment technical reports. Opportunities also include paleontological field work in the Southern California region and working with the extensive fossil collections of the San Diego Natural History Museum.

Qualified candidates must have at least a B.S. Degree in Geology or Paleobiology; 2 to 3 years of relevant experience (especially sedimentary geology and paleontology); excellent supervisory/managerial, verbal, written, and interpersonal skills; and a strong work ethic, intense drive, and initiative for quality and customer service. This position is a regular, full-time salaried position with a generous benefits package (e.g., full medical and 401K plan). Compensation will be based on individual qualifications and experience (annual salary range \$40,000 to \$60,000).

YOUR JOB ANNOUNCEMENT COULD GO HERE:



SAN DIEGO ASSOCIATION OF GEOLOGISTS

www.sandiegogeologists.org

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