

# SAN DIEGO ASSOCIATION OF GEOLOGISTS

[www.sandiegogeologists.org](http://www.sandiegogeologists.org)

## SDAG / SCGS JOINT MEETING ANNOUNCEMENT

TUESDAY, JUNE 9<sup>th</sup>, 2009

(note day/date change!)

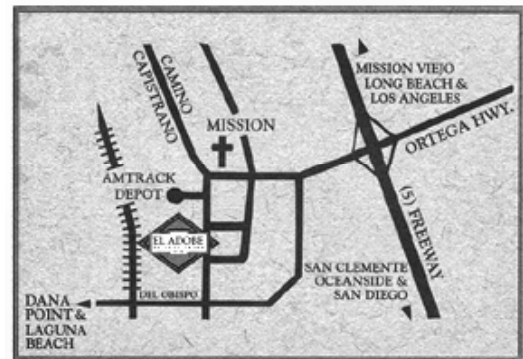
### *Antarctica: An Overview*

*Presented by*

**Dr. Patrick L. Abbott, Professor Emeritus of Geology,  
San Diego State University**

**Where:** El Adobe Restaurant  
31891 Camino Capistrano  
San Juan Capistrano  
Phone: (949) 493-1163

**MAP:**



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

**Directions:** I-5 to Ortega Hwy exit, go west. Ortega Hwy dead ends into Camino Capistrano (after 3 blocks); turn left and go approx. 1.5 blocks. El Adobe Restaurant is on the right side of street. Parking lot is behind building. Additional parking can be found across the street.

**or:** **Amtrak** (El Adobe is 3 blocks south of the train station)

**Dinner:** Chips & Salsa, Mixed Green Salad, Veracruz chicken enchilada, beef taco, Spanish rice, and refried beans. Vanilla ice cream with caramel syrup and whipped cream. Coffee and Tea. Cash bar.

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

**Reservations:** Make your reservation **online** at [www.sandiegogeologists.org](http://www.sandiegogeologists.org) no later than noon, **Monday, June 8<sup>th</sup>**.

**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 3<sup>rd</sup> Wednesday of the month but may change to accommodate speaker and meeting place schedules. Check here for updates!

July	<b>Dave Schug</b> , "Panama Canal" (Joint meeting with AEG)
August	TBD – Scott's "working on it"
September	<b>Candace Kohl</b> , "Meteorites" (?)

### 2009 EXECUTIVE COMMITTEE

**PRESIDENT** – Scott Snyder; *Ninyo & Moore*; Ph: (858) 576-1000; [sdag2006@prodigy.net](mailto:sdag2006@prodigy.net)

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### Dr. Patrick L. Abbott, Professor Emeritus of Geology, San Diego State University

Pat Abbott is a native San Diegan who earned a Ph.D. in geology at the University of Texas at Austin. He is Professor Emeritus of Geology at San Diego State University. Pat's research focuses on reading the history recorded in sedimentary rocks and fossils including paleoenvironments, paleogeographies, paleoclimates, and prehistoric natural disasters. At SDSU Pat taught courses on Petrology of Carbonates, Terrigenous Depositional Systems, Sedimentology, and initiated the large-auditorium course in Natural Disasters.

Pat is the author of the textbook Natural Disasters now in its 7th edition with McGraw-Hill Publishers. He wrote The Rise and Fall of San Diego which explains the geologic history of San Diego recorded in sedimentary rocks. Pat also is the editor or co-editor of 20 books containing research results including five for SDAG and one for SCGS.

Expertise in the science behind the news leads Pat into some 200 TV news interviews each year. He currently lectures on cruise ships around the world.

### "Antarctica: An Overview"

There are three Antarcticas: continental, political, and biological. We will look at each.

**Plate tectonics.** Continental Antarctica formed during the breakup of Gondwanaland. We will watch a 200 frame video centered on the South Pole documenting the breakup in 1 million year frames. Antarctica covered the South Pole 100 million years ago, but major glaciation did not begin until ~34 million years ago - why is that?

**Volcanoes.** There are 41 active volcanoes on Antarctica. We will look at Mt. Erebus, Deception Island, and Protector Shoal.

**Ocean circulation and the buildup of ice.**

**Antarctica today.** Is it affected by global warming?

**Territorial claims.** Many nations have claims. At present, most regulation is through IAATO (Int'l. Assoc. Antarctic Tour Operators). Tourism is growing rapidly via the cruise-ship industry yet <1 million people have ever been to Antarctica.

**Food chain.** A highly productive yet simple food chain explains much about Antarctic life.

**Katabatic winds.** Quick developing, powerful, and hazardous.

### Presidents Corner, JUNE 2009

We had another great SDAG talk, with a very entertaining, knowledgeable, and dare I go out on a limb and say energetic speaker in Norrie Robbins. Norrie is one of our own and it was my pleasure to ask her to present to the group. Norrie has obviously spent a lot of time researching the research on how people got to the Americas and how geological techniques can be used to aid us in looking for the evidence. As with everything, it's not as simple as we may think. After all, some of the evidence points to intrepid sailors coming across the Pacific in little more than canoes! Thanks for the talk Norrie, your energy is infectious.

We have another one stop wonder coming up Saturday, May 30. Dave Bloom, Monte Murbach, and George Copenhaver (and others I am sure) lead us to an old feldspar mine that had its hey day in the early part of last century. At one time it was one of the major if not most important sources of feldspar in the country. A trip to the old mill at Cameron Corners was held as part of the 2005 field trip by my ghost writer, but now we get a peek into the location of the raw material! Should be great.

Finally, next month will feature the venerable Dr. Pat Abbot who will be speaking on multiple multi-disciplinary topics with regard to Antarctica. The meeting is early this month as it is our annual SDAG/SCGS joint meeting at El Adobe in San Juan Capistrano on June 9. Sign up now, this should be an interesting ride!

Unfortunately, I will not be in attendance next month to see Pat's talk as my wife and I will be travelling to Southern Africa for a month. I'll catch up with you all at the July meeting (TBA) and hope at some time in the future to share some (hopefully) interesting stories with you from the journey.

*All the best, Scott Snyder, SDAG Prez*

### 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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Katherine Freese	<a href="#">Southwest Geophysics, Inc.</a>

## 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](mailto:bryanmillerhicks@gmail.com) 619-733-3724

Dr. Monte Marshall, Ph.D.  
Emeritus Professor of Geologic Sciences, SDSU  
[mmarshall@geology.sdsu.edu](mailto: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 1st, 2009  
Target publication date: late September, 2009

For further information, contact [bryanmillerhicks@gmail.com](mailto:bryanmillerhicks@gmail.com) or [mmarshall@geology.sdsu.edu](mailto: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.	A. Lugo Fernández, MMS.	M. Hendershott, SIO/UCSD.
K. Brink, WHOI.	C. Winant, SIO/UCSD.	H. D'Acosta, Casa de Piedra.
A. Moore, UCSC.	M. López, CICESE.	E. Chassignet, COAPS/FSU.
M. Lavín, CICESE.	F. Martain, Cavas Valmar.	A. Provenzale, ISAC/CNR.

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



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## **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](mailto:resumes@bfsa-ca.com) or fax to 858-679-9896.

**Brian F. Smith and Associates** ([www.bfsa-ca.com](http://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.

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:

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**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).

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**YOUR JOB ANNOUNCEMENT COULD GO HERE:**





# SAN DIEGO ASSOCIATION OF GEOLOGISTS

[www.sandiegogeologists.org](http://www.sandiegogeologists.org)

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Please type or print clearly, and check your chosen delivery address below.

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