



# SAN DIEGO ASSOCIATION OF GEOLOGISTS

<http://www.znet.com/~sdag>

## 2000 EXECUTIVE COMMITTEE

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## SDAG MEETING ANNOUNCEMENT

**Wednesday, November 15, 2000**

**Where:** Red Oak Steak House  
402 Fletcher Parkway  
El Cajon  
Phone: (619) 442-0517

**When:** 6:00 pm – Social Hour  
7:00 pm – Dinner  
8:30 pm – Program

**Dinner:** Choice of tri-tip roast, chicken, or swordfish; lemonade, iced tea, coffee and dessert.

**Cost:** \$20.00 per person, Students with ID \$10.00. At the door without a reservation \$25.00

**Reservations:** Make your reservation at 858/974-6994, ext 1760, or the SDAG web site, ASAP.

**Program:** **Crustal-Mantle Evolution on Mars: Paleo Plate Tectonics**

**Speaker:** Tim Smith, University of California, Los Angeles

### **Program Abstract:**

Controversy exists whether the Martian mantle currently convects at its present stage of history. In the absence of current plate tectonics, a thick layer of lithosphere sits atop the Martian mantle insulating the planet from efficient heat loss, and possibly allowing a style of convection somewhat unlike that on Earth. Mantle magmatism and mantle convection couple strongly with each other, and are agents that determine both the configuration of chemical heterogeneity of the mantle and lithosphere, and the thermal state of the mantle. Use of a Stag3d numerical model to simulate Martian magmatism coupled with underlying mantle convection may provide a more robust connection between the principal Martian volcanic provinces, and a different type of planetary convection that is evident on Earth.

### **Speaker Biography**

- BA. Physics and Physical Sciences, CSU Stanislaus, 1986  
Concentration: Earth & Spaces Physics, Schwarztchild Rotating Black Holes
- M.S. Astronomy, SDSU, 1990  
Concentration: Binary Stars
- M.S. Geology, CSU Hayward, 1995  
Concentration: Phreatomagmatics and Groundwater Interactions
- Ph.D. Geology, UCLA, At Present  
Numerical modeling of Martian Mantle Convection and Magmatism, and
- Working with the Mars Global Surveyor Radio Science Team at the Jet Propulsion Laboratory (JPL) in Pasadena, California.

### **UPCOMING 2000 MEETING:**

#### **THE LAST MEETING! DON'T MISS IT!**

December 20	Tom Deméré, San Diego Natural History Museum Paleontology Update, Scholarship announcements and SDAG elections.
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### **UPCOMING 2001 MEETING:**

January17 (tentative)	Lee Vanderhurst, Geotechnics, Inc. ; Lateral Spreading in the Otay Formation.
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### **2000 Corporate Sponsors**

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Please consider becoming a Corporate Sponsor of SDAG. In addition to monthly recognition for your contribution, you will be entitled to a free internet "link" from the SDAG Website, and we plan to list our sponsors at the front of the SDAG Field Trip Volume.

## ANNOUNCEMENTS:

**SDAG NEWSLETTER GOING DIGITAL!** Beginning in the fall of 2000, the monthly newsletter is being transmitted via e-mail to all members (for whom we have email addresses). You will need the Adobe Acrobat Reader to open it, but that is freely available for download (at [www.adobe.com](http://www.adobe.com)). If we don't have your e-mail address, please provide it to Bob Stroh ([rstroh@ninyoandmoore.com](mailto:rstroh@ninyoandmoore.com)). Starting in January 2001, SDAG will offer the newsletter by e-mail as the primary means of distribution, reducing the postal mailing list as much as possible. This will allow us to control costs (as mailing costs are our largest expense), freeing up more funding for field trips, scholarships, publications, and keeping membership dues low. It's also faster, with the same publication quality that SDAG members have come to expect. You will have an opportunity to specify e-mail distribution on your membership form for 2001, or if you prefer, to continue with a hard copy mailing.

**Last month's meeting was a great success!** For those who missed the awesome event, it was a joint meeting with the Society of Mining Engineers (SME) at the Raintree Restaurant in Carlsbad. The Program topic featured "The Hydrothermal Origin of the Fish Creek Gypsum Deposit". The speakers were David Peterson and George Jefferson. Approximately 50 attended the meeting which, by all rights broke the record as having an approximately 2 hour presentation. WOW! Thank you goes out to the speakers for a great presentation.

**TREASURER WANTED!** SDAG is now accepting nominations for Treasurer for the 2001 term. This is typically a four-year commitment, as officers usually "move up the ladder" on an annual basis, serving as President in their fourth year on the Executive Committee. As always, the election will be held in conjunction with the December meeting at the Natural History Museum. If you are interested, please contact Greg Cranham by December 1, 2000.

**REGISTER FOR THE GSA ANNUAL MEETING:** The GSA Summit 2000 Meeting will be held in Reno, Nevada, November 8 - 18 (technical sessions will be held November 13 - 16). On-site registration rates will be \$75 more for professionals and \$30 more for students. Go to [www.geosociety.org](http://www.geosociety.org) for more details on how to register.

**Society of Mining Engineers (SME) meeting** is scheduled for November 21 at the Pomona Valley Mining Co. (PVMC). The topic will be "Cool Runnings!-GIS Implementation & Utilization at Kaiser Jamaica Bauxite". For those interested in attending, contact T. Scott Griffin at 661/287-5410 for additional info.

**The Quartzsite Gem and Mineral Show** will be January 23 through 27, 2001. Call

**SDAG Mountain Biking** Are you interested in forming an SDAG mountain biking club? If so contact Mike Hart at [mwhart@AOL.com](mailto:mwhart@AOL.com) or call 858.578.4672.

**SDAG website:** Carolyn Glockhoff continues to update and manage our ever-evolving website. If you haven't yet seen this excellent and useful resource, check it out at: [www.znet.com/~sdag](http://www.znet.com/~sdag). Also, send the URLs of your favorite geology sites to Carolyn ([carolion@aznet.net](mailto:carolion@aznet.net)) for listing on the Geologic Links page.

**Thanks to Lowell Lindsay** and Sunbelt Publications for housing the SDAG Library and Archives. Any SDAG member may peruse our collection of past SDAG field guide volumes as well as a complete collection of *California Geology* magazines back to 1971. You are welcome to stop by during business hours at 1250 Fayette Street in El Cajon, or call (619) 258-4911 to set up an appointment (especially for after-hours or weekend research). And check out their new guide to Anza-Borrego, "A to Z"!

**Thank you to SDAG members Don Lynn and Jim Power** for their donations of past *California Geology* magazines to our archive, available at Sunbelt Publications in El Cajon. Call Lowell Lindsay at (619) 258-4911 x111 for info and access.

**South Coast Geological Society (SCGS):** The SCGS usually meets on the first Monday of every month, in Orange County. For more SCGS information, visit their new website at: [www.southcoastgeo.org](http://www.southcoastgeo.org), or contact this year's SCGS President, Bill Goodman, at (949) 442-2442.

**November Events at the San Diego Natural History Museum:** November 18, 9am-noon. Canyoneer guided walk. This moderate hike in Sloan Canyon, Dehesa, has a climb of about 1,000 feet over 2½ miles on an old road and offers a great view of the Sweetwater River. For directions call 619/232-3821 ext. 203 or ext. 4 after hours, or visit [www.sdnhm.org](http://www.sdnhm.org).

**The Gem & Jewelry Society of San Diego**, the community auxiliary organization that that supports **The Gemological Institute of America (GIA)**, is offering **\$11,892** to fund one Resident Gemology scholarship for an eligible San Diego County resident to take the on-campus Graduate Gemologist Program in 2001. Completed applications should be delivered to GIA by **the deadline of December 15, 2000**. Contact Sonia Brodtkin, GIA, at 760/603-4170 for additional information and to obtain a copy of the application.

**Geology Terms in English and Spanish-** Although author and former SDAG member Henry Aurand passed on just prior to publication of this new book, his legacy lives on through the designation of all royalties to the SDAG scholarship fund. In addition to bookstores and on-line ordering, the book is available from GSA at a member discount: [www.geosociety.org](http://www.geosociety.org).

**The Gordon Gastil Endowed Scholarship Fund** continues to seek donations of any amount. Gifts of \$ 500.00 or more will be recognized on a plaque to be placed in the remodeled Geology Building. Donations can be sent through SDAG, or contact Pia or Marie, Department of Geological Sciences, SDSU, at (619) 594-5586.

#### POSITIONS AVAILABLE:

- GEOCON Incorporated is searching for talented people to help handle their ever-increasing workload. Current openings:
  - ◇ Senior Staff Geotechnical Engineer with 2-4 years experience. BSCE required, MSCE preferred. Registration desirable. Previous experience in land development a plus.
  - ◇ Project Geotechnical Engineer with 3-5 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.

Please send resumes to: James E. Likins, President. Geocon Incorporated, 6960 Flanders Drive, San Diego, California 92121-2974. Fax (619) 558-6159. No phone calls please. Geocon is an equal opportunity employer. **(Geocon, Inc. is a SDAG Corporate Sponsor)**

- GEOSYNTEC CONSULTANTS, a national environmental consulting firm, seeks individuals for our San Diego office with a BS or MS in geology or hydrogeology, with 1-3 years experience in environmental field work. Specific experience should include: lithologic logging; monitoring well installation; soil, sediment, surface water, and ground-water sampling; aquifer pumping test; slug tests; and management of subcontractors. Ideal candidate will have good oral/written skills. Travel required; physically fit & clean driving record. Competitive salary with excellent benefit package. Fax resumes to (858) 674-6586 or email to [twest@geosyntec.com](mailto:twest@geosyntec.com) EOE M/F/V/D
- STAFF ENGINEERS & SOIL TECHNICIANS – Southern California Soil & Testing, Inc. (SCST) has positions available for experienced staff engineers and soil technicians. SCST is trying to fill 2-3 positions with geotechnical professionals 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. Resumes should be forwarded in confidence to SCST, 6280 Riverdale Street, San Diego, California 92160-0627, to the attention of Steve Jensen, or fax to (619) 280-4717.

over...

- NINYO & MOORE, an equal Opportunity Employer, has several job openings in San Diego County and southern Riverside County for Field Technicians with soil and concrete testing experience. ACI and nuclear gauge certifications are preferred. Please send resume or fax in confidence to: Mark

Cuthbert, 5710 Ruffin Road, San Diego, California 92123. Phone: 858/974-6989. **(Ninyo & Moore is a SDAG Corporate Sponsor)**

## EARLY FIRST CALL FOR PAPERS:

This is to announce that the 2001 San Diego Association of Geologists (SDAG) volume theme, associated with the annual field trip, will be ***Engineering Geology of San Diego County – A Technical Addendum to Pat Abbott's Rise and Fall of San Diego***. The Field Trip chair will be Bob Stroh, Vice President (elect?) of SDAG.

**OVERVIEW:** The field trip is tentatively scheduled for September, and will focus on San Diego County. The trip will look at the geology of the region, including faults, landslides and unique features. There will be an emphasis on engineering geology. At this point, I welcome any additional ideas for topics.

**PAPERS:** All papers (of any length) relating to the geology, tectonics, sedimentology, geomorphology, hydrology, hydrogeology, or engineering aspects of these regions are welcome. If you are interested in writing or submitting a paper for the field guide, please contact Bob Stroh (see newsletter header for contact info).

**FORMAT:** Text and tables should be provided by 3.5" diskettes in Microsoft Word or text format, with an identical hard copy included. Final page size will be 6" x 9", with black and white illustrations, photographs and tables. Illustrations should be print quality and camera-ready hard copy, legible when reduced to 6" x 9" format. Oversize maps will be considered, but this and other issues that may modify the volume should be discussed with the General Editor in advance. Photos may be color prints or slides, but black and white originals typically result in a higher quality print in the final volume.

For guidance on matters of style and composition, consult the *U.S. Geological Survey Suggestions to Authors* (now in its 7<sup>th</sup> edition), and/or the *Chicago Manual of Style* (now in its 4<sup>th</sup> Edition). For technical matters, it is anticipated that an informal peer reviewer will read a draft of each paper and provide comments and suggestions to the author(s).

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