



SAN DIEGO ASSOCIATION OF GEOLOGISTS

www.sandiegogeologists.org

SDAG MEETING ANNOUNCEMENT **WEDNESDAY, April 21, 2004**

CURRENT THEMES IN MARS EXPLORATION ...AND HOW TO PUT GEOLOGISTS ON MARS

presented by
Marc Murbach, NASA

Where: Rockin' Baja Lobster – Old Town
3890 Twiggs St.
San Diego, CA 92110
(619) 260 0305



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

Directions: Rockin' Baja Lobster is located at the west end of Twiggs St. in Old Town. From Old Town Ave exit on I-5, turn north onto San Diego Ave, then bear left at the wye onto Congress St. In four blocks, turn left (west) onto Twiggs. Rockin' Baja Lobster is at the end.

Dinner: Select from six dishes, including shrimp (or vegetarian) fajitas, or enchiladas. Includes appetizers prior to meal.

Cost: \$25.00 per member and guests, \$10 for students. Add \$5.00 if you did not make a reservation.

Reservations: Make your reservation **online** at www.sandiegogeologists.org or call the SDAG Reservation Hotline at (619) 255-8380, **no later than 5PM Friday, April 16th**.

RESERVATIONS CANNOT BE ACCEPTED AFTER Friday 5PM.

2004 EXECUTIVE COMMITTEE

PRESIDENT - Monte Murbach; *Petra Geotechnical*; Ph: (858)-485-5530; mmurbach@petra-inc.com

VICE PRESIDENT - Margaret Eggers; *Eggers Environmental, Inc.*; Ph: (760) 757-7711; meqgers@eggersenv.com

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TREASURER - Phil Farquharson; *CG-Squared Productions*, Ph.(619) 224-8463; fax (619) 255-8380; geoquy@cg-squared.com

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

WEBMASTER - Carolyn Glockhoff; *Caro-Lion Enterprises*, Ph: (858) 549-3396; carolyn@caro-lion.com

SPEAKER: Marc Murbach

Marc Murbach has worked at the NASA Ames Research Center for 20 years, working in such diverse areas as advanced hypersonic re-entry systems, robotic and human mission design, instrument development, artificial gravity, and propulsion system development. He is the originator and Principal Investigator of the SOAREX project (Sub-Orbital Aerodynamic RE-entry EXperiments), a means of studying next generation planetary probe concepts from sub-orbital rockets. In the 90's, he was part of the Space Exploration Initiative team and currently supports the new exploration initiative. His undergraduate/graduate studies were at Harvey Mudd College, San Jose State University, and Stanford University.



SUMMARY:

CURRENT THEMES IN MARS EXPLORATION ...AND HOW TO PUT GEOLOGISTS ON MARS

Marc will present a brief history of both robotic and human Mars missions. Mars continues to fascinate on several different levels. First, it is the most accessible exo-biology field laboratory. Second, it is the most 'habitable' planetary body other than our Earth. Over the next decade, Mars will come into greater focus as exploration technologies gradually mature. Eventually, the stage may be set for human exploration. Marc will share his thoughts as to why human geologists would be the logical culmination, and what the benefits would result from such an undertaking.



PRESIDENT'S CORNER:

- **Anza and the Borregos.** Diana Lindsay gave us a great overview of AB. Thank you Diana. We had a great crowd of 65 in attendance. We are all running out to the desert this weekend!
P.S. I am very pleased with the attendance this year. Thanks!
- **Past Presidents.** We had 10 past presidents at our last meeting. The current officers are honored to have such a great attendance.
- **Rare Opportunity.** Please join us in April. Our guest speaker is a true Rocket Scientist from NASA. He will give us the nuts and bolts of how to actually get a geologist to the planet Mars. Marc Murbach will be giving us a presentation of the absolute cutting edge of space travel. He may also tell us of his hiking spot in Chile that they use as a simulation of Mars (or was it his front lawn...) Did I say rare? Please join us.
- **Rockin' Baja Lobster.** We found a new place to try in Old Town (thanks to Mike Hart, Past President, Early Holocene). The food is great. We will all be able to choose from a plate of 6 different varieties. Holds 65 people.
- **Restaurantes.** Dear Members: Please help us find additional places to have meetings. Two of our favorite places, Eva's and Big Stone Lodge have gone to the Big Take-out in the Sky.
- **May Meeting:** Dr. Jon Bray. Joint meeting with ASCE.
- **June meeting:** George Copenhaver. San Diego & Arizona Eastern Railroad.
- **Mini Field Trip:** SDAG BBQ and One-Stop Wonder (OSW). Saturday, May 8, 10am. Meet at Sunbelt Publications, 1250 Fayette St., El Cajon (near Fletcher Pkwy and Cuyamaca St.) Consolidate cars and visit a nearby site of geological interest. Return to Sunbelt for noon BBQ and suds.

ANNOUNCEMENTS:

Lee Fetzer Slideshow, San Diego Mineral and Gem Society, April 9, 7 pm

Lee Fetzer will present a slideshow, "Picturing the San Diego Gold Rush" at the San Diego Mineral and Gem Society monthly general meeting on **Friday, April 9th at 7 p.m.**

The author of *A Good Camp: Gold Mines of Julian and the Cuyamacas*, Dr. Fetzer is the author of two other local histories, and is currently writing a San Diego place names book. His slideshow highlights local mining history, and features both vintage images and the author's contemporary photos of Julian, Banner, the Stonewall Mine, and other historic Cuyamaca sites.

This award-winning author's slideshow is free, and the Society's meeting beforehand will include announcements of upcoming local gem and mineral events and outings, plus door prizes will be awarded.

The meeting is held at the San Diego Mineral and Gem Society Building, 1770 Village Place in Balboa Park's Spanish Village. For additional information call **Anne Schaffer at 858-586-1637** or visit the Mineral and Gem Society website, <http://www.sdmq.org>.

JOHN SINKANKAS TOURMALINE SYMPOSIUM

sponsored by the
SAN DIEGO MINERAL AND GEM SOCIETY
AND THE
GEMOLOGICAL INSTITUTE OF AMERICA

APRIL 10, 2004, 8 A.M. TO 4 P.M.

GIA World Headquarters, Carlsbad, California

SDMG and GIA will host a one-day symposium on Tourmaline. We have scheduled presentations by John Koivula, Bill Larson, Si Fraser, Jesse Fisher, George Rossman, Skip Simmonds, and Meg Berry. Presentations will cover a wide range of topics and levels, suitable to novices as well as experts on gems and minerals. These topics will include theories on the formation of tourmaline, world-wide localities including San Diego County, crystallography, inclusions in tourmaline, lapidary techniques, and color. This is a casual event; questions and discussions are encouraged. If you have tourmaline-related specimens, please bring them in. There will also be display tables with tourmaline varieties and books on tourmaline.

The cost is \$50 per person in advance, payable to SDMG. Checks and completed registration forms may be mailed to Anne Schafer, 8473 Hydra Lane, San Diego, CA 92126-1854. Checks must be received by April 1. There will not be day-of-event registration and we expect a sell-out. You may contact Anne at 858-586-1637 or annes@san.rr.com to verify that seating is still available. Coffee, donuts, drinks, sandwiches and a handsome tourmaline publication are included with registration.

REGISTRATION FORM -- TOURMALINE SYMPOSIUM

NAME: _____

ADDRESS: _____

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SDSU GEOLOGY DEPARTMENT SEMINARS for 2004
Departmental Seminars on Wednesdays. <http://www.geology.sdsu.edu/seminars/>

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 **David Bloom** at 619-524-6967 OR secretary@sandiegogeologists.org.

SDAG Historical Geologic Map Archive



Thank you for your contributions and suggestions. We have already scanned a pristine copy of Ellis & Lee's 1919 map (left) "Preliminary Geologic Map of San Diego County, California" from USGS Water Supply Paper 446. Please let us know what other rare, out-of-print geologic maps you would like to see in SDAG's electronic archive. We would like San Diego area geologic maps of regional scale (covering 7.5-minutes or more), and in the public domain. The goal of this project is to make a CD-ROM containing a set of digitally scanned maps available to SDAG members. Many of our own maps are damaged or missing from the map pocket of their corresponding reports. If you have a pristine copy of a rare geologic map, we would like to borrow it for scanning. Please contact **Greg Cranham** at mgcranham@hargis.com, or **David Bloom** at secretary@sandiegogeologists.org or (619)524-6967.

For more variety and impact with Power Point presentations and speeches, call SDAG Member **Russ Daubert**, Professional Communication Training at (619) 938-0429. Email: procommtraining@cox.net

SDAG Wear: - Monte (Murbach) 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 Fall 2024 Field Trip – Mars! Reservations are being taken now for this not-to-be-missed field trip. Participants on this field trip will be extremely limited, so *please sign up early*. See the largest volcano in the solar system. Explore deep canyons. Be prepared for high winds, dust storms, and temperature extremes. Although signs of water have been detected, we'll need to bring enough drinking water. Field trip organizers will provide food and life support. Return is planned for 2026. For additional information contact **Dave Bloom** (*not really --- I think!*).

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, **David Bloom** at 619-524-6967 OR secretary@sandiegogeologists.org.

SDAG PUBLICATION ORDER FORM

(619) 258-4911
 fax: (619) 258-4916

P. O. Box 191126
 San Diego, California 92159-1126

www.sandiegoogeologists.org

LIST	QUANTITY	PRICE	TOTAL
<i>Landslides in Crystalline Basement Terrain</i> Evans (1988)		\$	\$
<i>Seismic Risk in the San Diego Region</i> Roquemore, Tanges and Wright (1989 - proceedings)			
<i>Geotechnical Engineering Case Histories in San Diego County</i> Hoobs (1990)			
<i>Environmental Perils, San Diego Region</i> Abbott and Elliott (1991)			
<i>Natural History of the Coronado Islands, Baja California, Mexico, Revisited</i> Perry (1992)			
<i>Geology and Natural History, Camp Pendleton US Marine Corps Base, San Diego County, California</i> Rosenberg (1994)			
<i>Paleontology and Geology of the Western Salton Trough Detachment, Anza-Borrego Desert State Park, California</i> Remeika and Sturz (1995)			
<i>Geology and Natural Resources of Coastal San Diego County, California</i> Munasinghe and Rosenberg (1996)		Out of print	
<i>Santa Cruz Island Geology Field Trip Guide</i> Boles and Landry (1997)			
<i>Geology and Geothermal Resources of the Imperial and Mexicali Valleys</i> Lindsay and Hample (1998)			
<i>Water for Southern California</i> Cranham(1999)			
<i>Geology and Enology of the Temecula Valley</i> Birnbaum and Cato (2000)			
<i>Coastal Processes and Engineering Geology of San Diego, California</i> Stroh (2001)			
<i>Geology of the Elsinore Fault Zone San Diego Region</i> Murbach and Hart (2003)			
SUBTOTAL:			
Postage and Handling \$4.00/book (unless picked up):			
TOTAL:			

rev. 02/04

DATE OF ORDER: _____

CHECK # _____

SHIP TO: _____

1. Prices subject to change without notice. _____
2. Allow 4 weeks for delivery. _____
3. Make checks payable to SDAG at address above. _____
4. Bookseller discount off list price is 40%,
 resale number required. Phone: _____

JOB OPENINGS!

STUDENT GEOLOGIST WANTED

\$10.36-\$12.48/HR

EMPLOYMENT NOTICE

The City of San Diego Development Service Department Geologic Review section is seeking a qualified student (graduate student preferred) interested in a limited paid position as an intern. The position will last approximately one year and will provide up to approximately 20 hours a week during normal business hours, although flexible scheduling is available. The selected individual will begin work as soon as possible.

The selected individual will be supervised by California-registered geologists and/or civil engineers, and will perform engineering and geologic work applicable toward registration.

The student ideally will have some academic background pertaining to geology/civil and/or engineering geology/geotechnical engineering. In addition, familiarity with computer word processing programs, spreadsheets, databases, strong reading and reasoning skills are important considerations. Work experience in the Civil/Geotechnical engineering fields will also be considered. Interested individuals should contact Robert N. Hawk, Senior Engineering Geologist at 619-446-5288 or George Varshock at 619-446-5304. Resumes may be sent to:


Robert N. Hawk, PE
Senior Engineering Geologist
City of San Diego
Development Services
Land Development Review Division
1222 First Avenue, MS 502
San Diego, CA 92101-4155

or FAXED to the above at: 619-446-5499

Or emailed in .PDF or Word format to: rhawk@sandiego.gov

The selection process is ongoing. Resumes may be kept for subsequent open positions.

Hargis + Associates, Inc., a San Diego based consulting firm (**and SDAG Corporate Sponsor**) specializing in **hydrogeology and engineering**, currently has opportunities in both our Mesa, Arizona and San Diego offices. We are currently looking to fill the following positions:

	<p>HARGIS + ASSOCIATES, INC. HYDROGEOLOGY • ENGINEERING</p> <p>Mission City Corporate Center 2365 Northside Drive, Suite C-100 San Diego, CA 92108 Phone: 619.521.0165 Fax: 619.521.8580</p>
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Staff Hydrogeologist-Modeler: Candidate would possess a M.S. Degree in Hydrogeology, and 2 to 4 years relevant experience, including experience with groundwater modeling and GIS. Candidate should possess strong writing and presentation skills. California registration is a plus. OSHA 40-hour training preferred, but not mandatory. Position may be based in San Diego, CA, or Mesa, AZ. Some travel may be required.

Entry Level Engineer: Candidate would possess B.S. Degree in Chemical, Civil, or Mechanical Engineering. Position will be based in San Diego, and may require some travel and field work. OSHA 40-hour training preferred, but not mandatory.

Staff Engineer: Candidate would possess B.S. Degree in Chemical, Civil, or Mechanical Engineering and EIT Certification, and two to four years of relevant experience, including design, operation, and

maintenance of remediation systems. Masters degree and registration is a plus. Candidate should possess strong writing and presentation skills. Position will be based in San Diego, and may require some travel and field work. OSHA 40-hour training preferred, but not mandatory.

Hargis + Associates offers competitive salaries and benefits, and a challenging work atmosphere. Hargis + Associates is an Equal Opportunity Employer. To learn more about Hargis + Associates, please visit our website at: www.hargis.com.

Qualified candidates should send resumes, along with a cover letter summarizing experience and salary requirements to:

Hargis + Associates, Inc.
 Attention: Kim Stransky
 2365 Northside Drive, Suite C-100
 San Diego, CA 92108

KLEINFELDER is seeking a **Senior Environmental Engineer for their Temecula office**. Qualifications: Job Code #292: Seeking individual with management experience (personnel and projects). Positions require BS degrees in civil, chemical, mechanical, or environmental engineering; MS degrees with EIT, PE, or certification preferred. Ten plus related experience required. To submit a resume online, go to Kleinfelder.com and click on "Careers." (1203)

2004 CORPORATE SPONSORS - THANK YOU!!

A significant portion of the SDAG operating and scholarship budget is provided by corporate sponsorship. Please consider becoming a Corporate Sponsor for 2004! 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.

Dr. Sarah Gray - University of San Diego	Dr. Monte Marshall
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San Diego Association of Geologists
c/o David M. Bloom
3728 Mt. Almagosa Place
San Diego, CA 92111