

# SAN DIEGO ASSOCIATION OF GEOLOGISTS

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

**Changed Week**

**SDAG MEETING ANNOUNCEMENT**

**Wednesday, January 26, 2005**

## ***GEOLOGICAL EXCURSION TO CENTRAL AND NORTHERN MONGOLIA***

*presented by*

**Dr. Chris Metzler**  
Mira Costa College

**Dr. Tumenbayar B**  
Director of Geo Consulting Group in  
Ulaanbaatar, Mongolia

**Where:** Emiliano's Mexican Restaurant  
6690 Mission Gorge Road  
San Diego, CA 92120  
619-232-3821

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



Photograph by © WWF -  
Canon/Hartmut JUNGILIUS

Orchon River, Mongolia

**Directions:** The old *Eva's*. Just north of Zion Avenue, where Friars Road east turns into Mission Gorge Road. It's at the far north end of the strip mall, northwest side of the street.

**Dinner:** Mexican Buffet.

**Cost:** \$20 per member and guests, \$10 for students. Add \$5 if you did not make a reservation.

**Reservations:** Make your reservation **online** at [www.sandiegogeologists.org](http://www.sandiegogeologists.org) or call the SDAG Reservation Hotline at (619) 255-8380, **no later than 5:00 p.m. Friday, January 21<sup>th</sup>**.

**RESERVATIONS CANNOT BE ACCEPTED AFTER Friday AT 5 PM.**

### **2005 EXECUTIVE COMMITTEE**

**PRESIDENT** - Margaret R. Eggers; *Eggers Environmental, Inc.*; Ph: (760) 757-7711; [megggers@eggersenv.com](mailto:megggers@eggersenv.com)

**VICE PRESIDENT** - Phil Farquharson; *CG-Squared Productions*, Ph:(619)224-8463; fax:(619)255-8380; [geoguy@cg-squared.com](mailto:geoguy@cg-squared.com)

**SECRETARY** - David Bloom; *Anteon*; Ph: (619) 524-6967; fax (619) 524-6000; [secretary@sandiegogeologists.org](mailto:secretary@sandiegogeologists.org)

**TREASURER** - Sarah Gray; *University of San Diego*, Ph: (619) 260-4098; fax: (619)260-6874; [sgray@sandiego.edu](mailto:sgray@sandiego.edu)

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

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

## **BIOGRAPHICAL SKETCHES:**

**Tumenbayar B.** has a Ph.D. from Moscow State University in Russia. He currently is the Director of Geo Consulting Group in Ulaanbaatar, Mongolia, and has recently investigated mercury pollution in Mongolia as it relates to use in gold mining operations.

**Chris Metzler** earned his Bachelor's in Earth Science from UC Santa Cruz, and his Master's in Earth Science and Ph.D. in Oceanography from Scripps Institution of Oceanography. He currently teaches various courses at Mira Costa College in northern San Diego County, and spent 3 weeks this past summer with the Geological Society of America field excursion in Mongolia.

## **SUMMARY:**

### **GEOLOGICAL EXCURSION TO CENTRAL AND NORTHERN MONGOLIA**

For 19 days last July and August, a small group of geologists explored the wilds of Central Mongolia. This trip, organized by GSA's GeoVentures, was led by colleagues from Mongolian Technical University, the Mongolian Academy of Sciences, and the Colorado School of Mines. Our own Chris Metzler was one of this lucky group. Chris and Tumenbayar will share their unique experiences and photographs of this remote area. Their travels took them across the northern slopes of the Khangai Mountains, with exposures of highly deformed Paleozoic metamorphic and sedimentary basement and Mesozoic intrusive rocks that underlie the mountains. They also saw Cenozoic volcanic areas; phosphorite, placer gold and porphyry copper deposits, and the famous Kuvsgul Lake. Chris will describe the trip, and Mongolian geologist (and trip leader) Tumenbayar will give a presentation on the geology and mineral resources of Mongolia. Come join us for a rare look at an area of fascinating geology, dramatic landscapes and wonderful people!

## **PRESIDENT'S CORNER:**

- **Thank You Monte Murbach!** I wanted to thank Monte for 4 terrific years of service as an officer and President of the SDAG. His good nature, generosity, enthusiasm and good ideas made a wonderful contribution to our organization for the past 4 years. Although I couldn't say it at our last meeting (due to a complete loss of voice) I wanted to say it here - **THANK YOU MONTE!!!!**
- **2004 Holiday Meeting** – Wow – We had a terrific attendance (around 120) at our final meeting of 2004. The ever-popular year end fete at the Natural History Museum was a hit again this year. Thanks to the additional financial contributions of all the members to make sure we could continue this tradition! And thanks to Dr. Tom Deméré for getting us up-to-date on the latest fossil finds in the County! His talk really illustrated what a vital role the museum staff plays in preserving our local paleontological treasures.
- **New President** – It's a new year and a new SDAG President! I'm delighted to be serving my 4th year as an SDAG officer and am looking forward to another great year with the SDAG. If you have ideas for speakers or good meeting/eating places please don't hesitate to call or email me!

***Happy New Year!!!  
Margaret R. Eggers***

## ANNOUNCEMENTS:

**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](mailto:secretary@sandiegogeologists.org).

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**2005 SDAG MEMBERSHIPS** are now being accepted. Please be sure to renew your membership to continue receiving the newsletter. Your membership supports our activities. We adore our Corporate Sponsors. Thank you to all the Corporate Sponsors who renewed last month. Please consider renewing your Corporate Sponsorship for 2005. A membership form is included with this month's newsletter.

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**19<sup>th</sup> ANNUAL SDSU GEOLOGY ALUMNI FIELD TRIP: EVERYONE IS WELCOME!! :)**

**WHEN:** March 4, 5, and 6

**WHERE:** Painted Canyon, in the Mecca Hills, 6 miles east of Mecca, 20 SE of Palm Springs, near the north shore of the Salton Sea.

**WHAT:** Two days of hiking up Painted Canyon Gorge. Saturday, beginning at 9am, see the oldest rocks in So Cal, then the K-T Orocochia Schist, and many porphyritic dikes and talk about southwest tectonics since 2 Ga. Sunday, beginning at 9am, see the highly deformed sedimentary rocks, gouge, and basement in and near the strands of the San Andreas Fault.

**MORE INFO:** See the SDSU Geology Dept. website <http://www.geology.sdsu.edu/>

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### **The USGS and Caltech Public Briefing on the Sumatran Earthquake and Tsunami**

**What:** USGS and Caltech Public Briefing    **When:** 8pm, January 12    **Where:** Beckman Auditorium, Caltech (*Free*)

The staff of Caltech and the USGS will provide a briefing on what is known so far about the science of the Sumatran earthquake and tsunami. They will describe the geologic setting of the earthquake, why it was so large, and how the tsunami was created. For more information see <http://pasadena.wr.usgs.gov/info/lectures/> or call 626-583-6801.

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### **Congratulations to our 2004 SDAG student scholarship recipients.**

**Angela K. Hotz**, USD Marine Science Graduate Program. Thesis topic: Water and sediment quality in Bahia Magdalena, Baja California Sur, Mexico.

**Charles Lipka**, SDSU Department of Geology graduate student (Huntley). Thesis topic: Depositional Simulation of Aquifer Heterogeneity and Anisotropy.

We look forward to presentations by both scholarship recipients at a Spring SDAG meeting.

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**Tilford Field Studies Scholarship Application Deadline Feb 1** Applications for the 2005 undergraduate and graduate Norman R. Tilford Field Studies Scholarships are now available on the AEG web site at [www.aegweb.org](http://www.aegweb.org) (follow the AEG Foundation link to Tilford Fund information).

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The **State Mining and Geology Board's** agenda notice (with staff reports) for its January 13, 2005, meeting is posted on the website: <http://www.conservation.ca.gov/smgb>.

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**SDAG 2004 Member Directory** is available for \$2 at our meetings. If you would like a copy mailed to you, please contact SDAG Secretary **David Bloom** at 619-524-6967 or [secretary@sandiegogeologists.org](mailto:secretary@sandiegogeologists.org).

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### **Sunset Review (of Board for Geologists and Geophysicists) to be held January 6**

The Joint Committee on Boards, Commissions and Consumer Protection will hold the Sunset Review Hearings on January 6, 2005, in Sacramento. A background paper may be found at [http://www.sen.ca.gov/ftp/SEN/COMMITTEE/JOINT/SUNSET\\_REVIEW/home/pubs.htm](http://www.sen.ca.gov/ftp/SEN/COMMITTEE/JOINT/SUNSET_REVIEW/home/pubs.htm) Charles Nestle, CCGO Vice President ([cnestle@ladpw.org](mailto:cnestle@ladpw.org)) is planning to attend, and would appreciate a note from other CCGO members who also wish to attend.

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## ANNOUNCEMENTS (CONTINUED):

### GEOLOGIST-IN-TRAINING CERTIFICATIONS EFFECTIVE JANUARY 1

Effective January 1, 2005, the Board for Geologists and Geophysicists (California Department of Consumer Affairs) is announcing a trainee certification toward the *Professional Geologist* license in the State of California. New legislation signed by Governor Schwarzenegger in 2004 (SB 1914) allows college graduates with majors in Geology to take the National Association of State Boards of Geology (ASBOG) *Fundamentals of Geology* exam, which is given once a year on the first Friday of March. Once the graduate passes the exam, s/he will be issued a certificate as a Geologist-in-Training. The ASBOG *Fundamentals of Geology* examination is the first of three examinations necessary to become licensed in California (the other two are the ASBOG *Practice of Geology* examination and the Board's "California specific" examination). This certification will be a strong qualification for graduates to add to resumes as they conduct a job search. After working with a Professional Geologist for 3 years (BA/BS degree) or 2 years (MA/MS/PhD degree), graduates can apply to take the ASBOG *Practice of Geology* and California-specific exams for licensure as a Professional Geologist in the State of California.

**Eligibility:** BA/BS degree in Geology. Students graduating in May, August and December 2005 will be eligible to take the exam in 2006.

**Registering for the Fundamentals of Geology Exam:** Submit application (available at [www.geology.ca.gov](http://www.geology.ca.gov)) and official copies of transcripts (must be received directly from the university to the Board) along with a check for \$400 (\$250 to open your file with the licensing board plus \$150 examination fee) to:

Board for Geologists and Geophysicists  
2535 Capitol Oaks Drive, Suite 300A  
Sacramento, CA 95833-2926

**Deadline:** The deadline for the 2006 Exam is November 23, 2005.

**Exam Date:** March 3, 2006

The exam will be given in Sacramento and Carson, CA.

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**CALL FOR PAPERS! Peninsular Geological Society:** Call for papers and updated information now available on the website: <http://geologia.igeolcu.unam.mx/proyecto/SGP/caratulaSGP.html>

**VII International Meeting on the Geology of Baja California** will be hosted by colleges from Universidad Autónoma de Baja California in collaboration with CICESE in **Ensenada, April 4-7 2005.**

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**SDAG Historical Geologic Map Archive** Thank you for all your help and contributions! We have permissions from the copyright holders to begin production of a DVD-ROM disc to make the archive available. Anyone who would like to help, please contact **Greg Cranham** at [gcranham@hargis.com](mailto:gcranham@hargis.com), or **David Bloom** at [secretary@sandiegoogeologists.org](mailto:secretary@sandiegoogeologists.org) or (619)524-6967. For a preview of Hanna (1926) *Geologic Map of La Jolla Quadrangle*, (reduced resolution) click: <http://www.muststayawake.com/SDAG/Hanna1926.html>



SDAG 2005 annual Fall field trip is a railroad excursion through Carrizo Gorge. More details to follow.

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San Diego is the home of the **Gemological Institute of America (GIA)** and is hosting the 4<sup>th</sup> International Gemological Symposium **25-27 August 2006**- field trip is to the Pala pegmatite district. Contact info: **Dr. James Shigley** [jshigley@gia.edu](mailto:jshigley@gia.edu) or [www.gia.edu](http://www.gia.edu)

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**NASA World Wind** (<http://learn.arc.nasa.gov/worldwind/>) is free software recommended by Dr. Monte Marshall if you have broadband connection. "You can overfly the WHOLE world!!" – Dr. Marshall

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**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.

## ANNOUNCEMENTS (CONTINUED):

### **2005 Inland Geological Society Meetings**

Greetings Members and Attenders, Affiliates and Recipients - Happy New Year !

**Thursday, January 6, 2005 - 8:00 pm, Riverside Municipal Museum** Dr. Tien-Chang Lee, Professor of Geophysics and Hydrogeology, UC-Riverside: "Basin structure and subsurface waters in the San Jacinto watershed"

**February 2, 2005 - Alexander Schriener, Registered Geologist, Earth Systems-Southwest, Bermuda Dunes, CA:** "The Geology and Geothermal Potential of the Emigrant Prospect, Fish Lake Valley, Esmeralda County, Nevada"

**March 3, 2005-1st Speaker: Jason Preach, Calif. Council of Geoscience Organizations (CCGO), Sacramento:** "Status of California State Mining and Geology Board (SMGB) and California Board of Registration for Geologists and Geophysicists and the California Performance Review of State Boards (CPR)"

**2nd Speaker: Dr. Douglas A. Barnum, USGS, Salton Sea Science Office, La Quinta, CA:** "Update: Salton Sea Restoration or Integrated Water Resources Management Plan"

**April 6, 2005 - John Izbicki, California Coastal Plain and Desert Areas, Water Resources Division, U.S. Geological Survey, San Diego:** "Studies Results on Chromium in the Mojave Desert"

**May 17, 2005 (Tuesday) - Speaker(s): Sponsored by CSU-SB, Geology Department, Dr. Alan Smith, Department Chair (with Erik Melchiorre):** "Tour of New Facilities and Short Discussions of Programs, Geology Department, California State University, San Bernardino," hosted by CSU-SB, joint IGS joint meeting with Southern California Section, Society of Mining, Metallurgy and Exploration (SME).

**June 1, 2005 - Dr. Gary Fuis, U.S. Geological Survey, Menlo Park, CA:** "Geophysical and Geological results of active-source (dynamite) deep seismic work in southern CA leading to identification of a hazard in the form of a major decollement beneath the San Gabriel Mountains, and apparent connection to the Puente Hills thrust fault system" (subject, not talk title)

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**Tribal Environmental Resources Management**, an upcoming course at SDSU will be taught by Mike Connoly. His regional and Campo Reservation perspective in particular is guaranteed to be instructive. Get his take on the local regulatory, political, and scientific issues.

The class is American Indian Studies 496 (AIS 496), planned for Spring semester 2005 offered Monday evenings, 4 PM to 7 PM. 3 units of SDSU credit. The class is a new experiment for the AIS department. Let's support the success of this promising class.

Interested? Have questions. Contact **Eric Riggs** at [eriggs@geology.sdsu.edu](mailto:eriggs@geology.sdsu.edu) or 619-594-5592 (office).

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Midwest GeoSciences Group presents a 3-day Continuing Education Workshop, March 8, 9, 10, 2005

### **Improving Hydrogeologic Analysis of Fractured Bedrock Systems With a Tour inside the Yucca Mountain Repository**

At University of Nevada Las Vegas and the Nevada Test Site

2.4 CEUs by UNLV; Course is pre-approved for MA LSPs, CT LEPs, TX CAPMs, IA CGWPs

Attendees will gain an advantage learning to significantly improve their hydrogeologic analysis of fractured bedrock, including carbonate, crystalline, and metamorphic rocks. **DAY ONE** begins with site characterization principals and the ways fractured bedrock controls ground water movement and contaminant transport. The afternoon is dedicated to data analysis including ground water modeling in fractured systems combined practicing rock core characterization and description. **DAY TWO** offers an opportunity to tour inside and around the Yucca Mountain Project at the Nevada Test Site. The 12-hour tour includes motor coach, tunnel training, lunch, four tour stops, and a complete discussion of the Yucca Mountain Project. **DAY THREE** draws on the first and second day and includes a comparison of hydrogeologic field tests and contrasting remediation strategies. Remediation topics will address both LNAPLs and DNAPLs.

*3-DAY Workshop/Field Trip Fee: \$1,295.00*

For complete course details and on-line registration: go to [www.midwestgeo.com](http://www.midwestgeo.com)

#### **REGISTRATION:**

- 1) Mail the on-line registration form at <http://www.midwestgeo.com>
- 2) Phone using your credit card or PO number by calling Dan Kelleher at 763.551.2435
- 3) Fax the on-line registration form to 763.658.1539

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**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](mailto:secretary@sandiegogeologists.org).

## 2005 CORPORATE SPONSORS - THANK YOU!!

A significant portion of the SDAG operating and scholarship budget is provided by corporate sponsorship. Please consider renewing your Corporate Sponsorship for 2005! 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.

Sherry Bloom, <a href="#">Real Estate Broker</a>	William J. Elliott, Engineering Geologist
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## JOB OPENINGS!

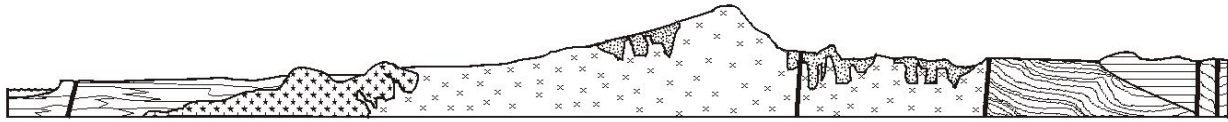
### Geotechnical/Environmental-Civil Design/Survey-Testing/Inspection Construction Testing & Engineering, Inc. (CTE)

CTE, a leader for more than 15 years in consulting engineering, survey, and testing/inspection, is actively searching for qualified **Engineers, Geologists, QC Mgrs, and Surveyors** for our corporate office building in Escondido and new office in San Diego. Professional registration is preferred, but not mandatory. Also seeking **Drafters, Soils Technicians, Special Inspectors, and Survey personnel**. Compensation is highly dependant on previous experience. Tremendous growth and management potential exists for all positions. For more information contact or forward resumes to: CTE, Attention Natasha, Phone: 760.746.4955, Fax: 760.746.9806, Email: [Natasha@cte-inc.net](mailto:Natasha@cte-inc.net)

### UNIVERSITY OF SAN DIEGO

#### Oceanographer, part time (15 units annually) non-tenure track teaching position

The University of San Diego (USD) Department of Marine Science and Environmental Studies invites applications for a benefited part time (15 units) non-tenure-track teaching position beginning in Fall 2005. Teaching responsibilities include three established courses in marine science: lower division introduction to physical oceanography, lower division life in the oceans and an upper division course treating human interactions with the oceans. In addition to teaching, the successful candidate may be asked to coordinate lecture and laboratory components of the two lower division courses. Minimum qualification is a Master's degree in oceanography or a related field; Ph.D. preferred. USD is an independent Catholic university whose primary aim is teaching excellence. Applicants should submit curriculum vitae, a brief statement of teaching philosophy and a list of three references by January 28, 2005 to: Chair, Department of Marine Science and Environmental Studies, 5998 Alcalá Park, San Diego, CA 92110-2492. Electronic applications and inquiries may be addressed to [asturz@sandiego.edu](mailto:asturz@sandiego.edu). Women and minorities are particularly encouraged to apply. USD is an Affirmative Action/Equal Opportunity Employer.



# SAN DIEGO ASSOCIATION OF GEOLOGISTS

www.sandiegogeologists.org

## 2005 MEMBERSHIP FORM

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*Please include company or other affiliation*

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E-mail Address:  \_\_\_\_\_

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Field(s) of Interest: \_\_\_\_\_

\_\_\_\_\_

Phone: Home: (\_\_\_\_) \_\_\_\_\_ Work: (\_\_\_\_) \_\_\_\_\_

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| <b>(check choice)</b> | _____ Student Member (add US mail delivery)   | \$ 10.00 |
|                       | _____ Regular Member (email delivery only)  | \$ 15.00 |
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|                       | _____ Corporate Sponsor ( <input type="checkbox"/> email + <input type="checkbox"/> US mail delivery) | \$100.00 |

New Member  Continuing Member

Date: \_\_\_\_\_ Check for change of mailing address:

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Sarah Gray  
Marine and Environmental Studies Department  
University of San Diego  
5998 Alcalá Park  
San Diego, CA 92110

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c/o David M. Bloom  
3728 Mt. Almagosa Place  
San Diego, CA 92111**