

ASSOCIATION OF ENGINEERING GEOLOGISTS

"Serving Professionals in Engineering, Environmental, and Ground-Water Geology"

THE ROCKY MOUNTAIN SECTION NEWSLETTER

www.aegrms.org

MEETING DATE

**THURSDAY
MARCH 14, 2002**

TIME

5:45 p.m. Social Hour
6:30 p.m. Dinner
7:30 p.m. Presentations

LOCATION

**Golden Community
Center**
1470 10th St
Golden, CO
See Map Below

COST

\$20 Members
\$22 Non-members
Free for Students

RESERVATIONS

c/o AEG Reservation Line
(303) 790-2161 x 243 or
meeting@aegrms.org
**BY NOON, FRIDAY
MARCH 8th**

An Evening with the President

Myles Carter the AEG president will be presenting at the next section meeting. Come and enjoy the presentation and have a chance to speak with the AEG president. The meeting location has been changed to the Golden Community Center.

ANALYSIS AND REMEDIATION OF STRUCTURES AFFECTED BY HEAVING AND SULFATATION CAUSED BY PYRITE- BEARING GRANULAR FILL

Myles A. Carter, M.Sc., P. Geol.
President, Association of Engineering Geologists

Since the mid 1980's certain Ordovician sedimentary rock formations in the St. Lawrence Lowlands have become well known for their heaving potential when used as granular fill. The heaving is the result of the development of secondary gypsum formed as a result of the reaction involving the breakdown of framboidal pyrite present within the finely bedded shale lamellae. Concrete is also attacked by sulphatation with resultant delamination and loss of mass and strength. The damages to structures founded on this type of fill has been well documented. Remediation techniques vary depending upon the type of structure affected, its usage, budgets, disturbance to occupants, and the petrographic and chemical nature of the fill materials.

This presentation discusses the development of new standardised test methods for performing forensic investigations of buildings affected by pyrite, and various remediation scenarios based upon the interpretation of the results obtained using the new Standard.

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student-chair@aegrms.org

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Vail 2003 Meeting Update

A meeting of the planning committee for the Vail 2003 meeting was held on February 4, 2002. Major items discussed were:

- 1) **Theme** - The three most popular themes were
 - a. Engineering Geology with an Altitude,
 - b. Elevating the Profession,
 - c. Rocky Mountain High - Colorado Geology.At student night by a popular vote, Engineering Geology with an Altitude was chosen as the theme.
- 2) **Gifts** – It was decided to explore having fleece vests and cloth book bags.
- 3) **Beer** – It was decided to have 3 beers brewed for the meeting (Tim Petz [chair@aegrms.org] is heading the name selection).
- 4) **Special Publication** – Doug Boyer proposed that we put together a special publication for the meeting. We are currently evaluating the idea and we should decide on the idea in the near future.
- 5) **Premeeting** – we have decided to have a meeting up in Vail at the hotel. It will be this spring and Julie Keaton will be attending.
- 6) **Outstanding Environmental and Engineering Geologic Project** – A project needs to be selected, some ideas were Eagle Mine, Arsenal, Summitville, and Cal-Gulch (Leadville).

If you would like to assist with planning the Vail 2003 meeting contact Mike Hattel at mhattel@msn.com

Spring 2002 Speakers and Locations

April 11th – CSM Museum – OPEN

May 9th – CSM Museum – Vince Matthews, Colorado Geological Survey, Should We Be Concerned About Earthquakes in Colorado?

Please let Peggy Ganse or Tim Petz know if you or someone you know would be interested in giving a talk at an upcoming RMS meeting.

Aspiring Employees

Many resumes from students graduating in the very near future have been received. Employers, please contact Tim Petz chair@aegrms.org for information regarding potential employees for summer part-time or full-time work. Students can drop off your information with Tim at the meetings or via e-mail.

Student Night

Student night was another huge success with several students attending from Colorado School of Mines (CSM) and South Dakota School of Mines and Technology (SDSM&T). Ten sponsors answered questions from the students and presented their products and services to professionals. Micah Keller from SDSM&T took first place and the Brunton Compass with Heidi Sieverding and Brad Crenshaw as the runners up.



ROCKY MOUNTAIN SECTION
ASSOCIATION OF ENGINEERING GEOLOGISTS

2002 Annual Student Night Sponsors

MicroGeophysics Corporation	Lachel and Associates, Inc.
GEI Consultants, Inc.	Mike Hattel
Colorado Geological Survey	Advanced Terra Testing, Inc.
Peggy Ganse	Rocky Mountain Consultants, Inc.
Church & Associates, Inc.	CTL Thompson, Inc.
John Ivey	Golder Associates
Haley & Aldrich, Inc.	Brierley Associates, LLC
Blackhawk GeoServices Inc.	Bill Smith

Special Thanks

Brunton Compass Rockware



Symposium at Rocky Mountain GSA Meeting 2002

An engineering geology symposium entitled, "Hillslope and Mountain Slope Hazards in the Rocky Mountains" will be held at the 2002 Rocky Mountain Section meeting of the Geological Society of America on May 7-9, 2002 in Cedar City, Utah. The goal of the symposium is to gather those geologists and engineers in the region who are dealing with all varieties of slope issues to share experiences, research, and solutions. Information on the meeting can be found at <http://www.geosociety.org/sectdiv/rockymtn/02rmmtg.htm>. Abstracts are currently being accepted for the symposium, so if you are interested in speaking, please contact one of the symposium organizers (Paul Santi, psanti@mines.edu 303 273-3108 or Francis Ashland, fashland.nrugs@state.ut.us 801 537-3380).

Rocky Mountain Section Outreach Program

On February 22, 2002, four professionals visited the South Dakota School of Mines and technology to have a round table discussion with the Geological Engineering and Geology students. Doug Boyer of the Bureau of Reclamation, Ed Friend of GEI Consultants, Inc., Peggy Ganse of Haley and Aldrich, and Stacy Splittstoesser of South Dakota Department of Environment and Natural Resources answered questions from students about the Engineering profession today. The round table was attended by between 30 and 40 students who had interesting and sometimes challenging questions. The discussion

was a huge success and provided the students with a better insight into what companies are looking for in new graduates.

This event is the first in hopefully more events involving the outlying areas of the Rocky Mountain Section of AEG. Attempts are being made to increase member participation in the outlying areas of the section. If you have ideas for an event, contact Ed Friend at webmaster@aeqrms.org.



Tunneling Symposium at AEG 2002 Reno

Peggy Ganse will be chairing a half-day symposium on behalf of the AEG Tunneling Committee at the upcoming Annual Meeting in Reno this fall. The symposium content and speakers list is still under development, so any interested parties can contact Peggy pastchair@aeqrms.org with input.

Geological Society of America National Meeting 2002

The 2002 GSA meeting will be held here in Denver this October 27-30. The Engineering Geology Division of GSA is beginning to assemble a program. General information on the meeting and the forms for submitting session proposals is available at <http://www.geosociety.org>. If you have questions for which you cannot find the answer on the web page, please contact Judy Ehlenor jehlen@tec.army.mil or Bill Haneberg, bill@haneberg.com.

Below is the last deadline:

July 16, 2002 Abstracts due by midnight, Mountain Daylight Time.

Summer Field Course in Neotectonics and Paleoseismology

For the second year, Dr. James P. McCalpin will teach a 2-week course on Field Methods in Neotectonics and Paleoseismology in the Rio Grande rift of south-central Colorado. Course emphasis is on mapping active faults (Week 1) and analyzing such faults in trench exposures (Week 2); there are abundant examples in the San Luis Valley. The course text is Paleoseismology (Academic Press, 1996) for which Dr. McCalpin received AEG's Claire Holdredge Award in 1999. However, this is primarily a field course that teaches GPS/GIS field mapping, trench placement, excavation strategies, shoring systems, trench logging techniques and computer retrodeformation analysis. For more detail, browse the GEO-HAZ website at www.geohaz.com and enter the Crestone Science Center pages.

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Legislative Reception

Sam Bartlett and Tim Petz attended the Legislative Reception on February 4th 2002. Rocky Mountain Section was able to speak with six State Representatives during the evening. This is several more than past years, therefore we believe it went very well. Our goal was to bring our organization and geotechnical engineering to their attention. We also discussed the licensure of geologists in Colorado. The appetizers were great and the drinks were plentiful! All in all a great night!

Your Business Card Here

The section is looking for companies or individuals who would like to advertise their products or services in the section newsletter and on the website. This is anything from a business card (\$10/month), quarter page spread (\$20/month), to a half page exposition (\$40/month). If you are interested, contact Ed Friend webmaster@aegrms.org or Kristi McQuiddy newsletter@aegrms.org.



Section News

1. Jessica Humble is actively seeking speakers for the CSM Student Section. Please contact her at student-chair@aegrms.org if you are interested in sharing your knowledge and experience.
2. Please forward any newsworthy items to Kristi McQuiddy newsletter@aegrms.org by the 20th of the month.

Do you have E-mail?

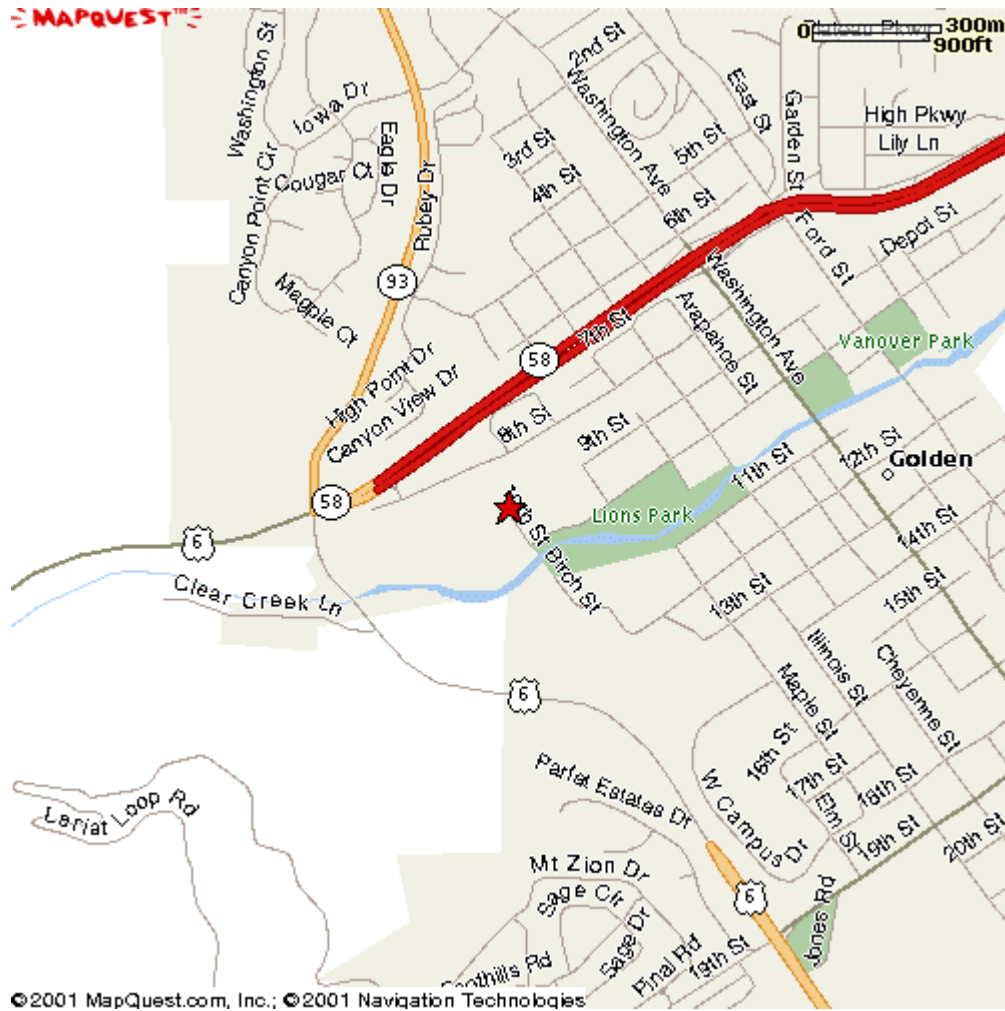
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Addresses/updates may be sent to Scott Walker (secretary@aegrms.org)

Section Chair's Corner

Student Night was a great success! I thank Employers, Vendors, Students, Sponsors, AEG members, and everyone else whom was involved. Get ready for next month! March 14th our President of AEG, Myles Carter from Montreal, Canada will be speaking to us. He is pumped up and ready to come to the mountains. I heard he is a big skier, maybe we will get a nice powder day for him. Lets show him our support and attend the March meeting. VAIL 2003, It's going to be huge! Cheers for now. . .

Thanks
Tim R. Petz, RMS Chair



GOLDEN COMMUNITY CENTER LOCATION
1470 10TH ST
Golden, CO