



ASSOCIATION OF ENGINEERING GEOLOGISTS

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

THE ROCKY MOUNTAIN SECTION NEWSLETTER

www.aegrms.org

MEETING DATE

**THURSDAY
NOVEMBER 6, 2003**

TIME

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

LOCATION

**BERTHOUD HALL
2nd Floor**
Colorado School of Mines
Golden, CO
See map below

COST

\$20 Members
\$22 Non-members
Free for Students first
time, \$10 then after

RESERVATIONS

c/o AEG Reservation Line
(303) 790-2161 x 243 or
meetings@aegrms.org
**BY NOON, TUESDAY
NOVEMBER 4th**

November Meeting Date Changed

Please Note: The November meeting will be held one week earlier, on November 6, 2003.

Sweet Jessup Canal

**Tara Meyer and Craig Ullmann
Applegate Group, Inc.**

Applegate Group, Inc. was retained in 1995 to provide on-going engineering design and construction management services for 16 miles of canal rehabilitation in the Roaring Fork Valley of the Western Slope. A preliminary evaluation and conceptual plan for the entire canal was prepared that identified "problem areas" in the canal and also suggested options for rehabilitation in these areas. Design criteria included cost, maintenance requirements, project life and protection of water rights.

Each "problem area" was prioritized based on a risk management approach. Applegate Group performed a hydraulic analysis and design for each section resulting in final construction plans for each phase. Construction activities were limited to the winter season due to the need for water in the canal from May through October.

Applegate Group, Inc. work included:

- Hydraulic analysis and pipe design on over 4 miles of canal in unstable reaches. Most of these areas were originally constructed with an alluvium highwall on the uphill side and were subject to slope failure or landslide potential.

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- Hydraulic analysis and structural design of 3 trestle flumes and 4 inverted siphons. In one case an existing trestle flume had been blown out twice due to significant storm events. During the project, a major flash flood blew out a 100-foot long trestle flume and took the canal out of service. Applegate Group worked with the contractor to provide emergency design and repair that brought the canal back into service within one week. A replacement siphon was designed and installed the following winter to remove the flash flood risk.
- Construction Management, Contract Administration and Field Engineering during all construction phases.



Words from the Chair

Greetings! The October meeting went great. We had 30 people in attendance, which exceeded our expectations so soon after hosting the annual meeting. I don't know if it was a result of the speaker, the topic, an indication as to the strength of our section at the local level, or a combination of all of the above. I know it had nothing to do with the new leadership.

The steering committee for the Denver 2004 Geoconference is well into organizing the bi-annual event co-hosted by ASCE, AEG, CAGE and CGS. The topic of the next event will be geotechnical engineering in water resources. The intent is to keep the topic broad in order to draw a wide range of interests. The meeting is scheduled for October 22, 2004 at the Radisson Hotel Denver Stapleton Plaza. Papers will be published as an ASCE Geotechnical Practice Publication (GPP). Papers in the GPP are subject to only one peer review by an individual who has knowledge of local practice. The intent will be to publish most papers received, however, only 10 to 12 will be selected to present at the conference. Look for the call for papers to come out in mid-November. Yours truly is on the steering committee so if you have any questions or comments, please contact me.

A date has been set for what will hopefully be the first meeting for a future Rapid City chapter.

Peggy Ganse and I will be traveling to Rapid City on November 21, 2003 to meet with the students and local industry. Larry Stetler of South Dakota School of Mining and Technology will be organizing the event. We encourage all of the Rocky Mountain Section to show their support by making the trip with us.

Darin Duran

RMS 2003-2004 Speakers

December 12, 2003 - *Harley Benz of USGS Volcanos. Note: This is family night.*

January 30, 2004- *David Simon AEG President.*

February 12, 2004 - Student Night, *Students from South Dakota School of Mines and Technology and Colorado School of Mines*

March 11, 2004 - TBD

April 8, 2004 - TBD

May 13, 2004 - TBD

South Dakota – Black Hills Chapter Meeting

The inaugural meeting of the Black Hills Chapter of the Rocky Mountain Section will be on Friday November 21, 2003. Darin Duran, Peggy Ganse and others will be traveling to the South Dakota School of Mines and Technology. Contact Larry Stetler lstetler@taz.sdsmt.edu for more information and if you are local to Rapid City if you are planning on attending or Darin Duran chair@aeqrms.org if you are in another portion of the section and are planning to attend.

Passing of a member

W. Ray Seiple passed away on September 18, 2003. He was a member of AEG for 32 years and was in the Sacramento Section.

Upcoming Addition to the Newsletter

Starting next month we will have an ongoing segment in the newsletter on the experiences of one of the first engineering geologists to practice in Colorado. We will let you ponder on who you think this engineering geologists may be. . .

AGI Government Affairs Program

Final Action on FY 2003 Appropriations Could Cut Geoscience Programs! For more information on this important topic, visit the AEG-RMS website www.aeqrms.org and click on AGI GOVERNMENT AFFAIRS MONTHLY REVIEW.



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New Website and E-mail

During the summer the section upgraded our hosting service for the website. Along with this we now have the capability to send out e-mails from our website. We are planning improvements to the website, if you have any ideas or contents please contact Ed Friend at webmaster@aeqrms.org.

Newsletter Delivery – E-mail Addresses

If you have a different e-mail address from this past spring, please let us know so we can update the mailing list. We have several e-mail addresses that are not correct and this results in having to mail a hard copy which is an additional cost to the

section. If you fall into this category please send your current e-mail address to newsletter@aegrms.org. Your section funds thank you.

Vail Memories

If you have any memories or pictures of the Vail meeting you would like to share with the section please send them to Kristi McQuiddy at newsletter@aegrms.org. We will be setting up a gallery on the website and our space is nearly unlimited to start sending those pictures and articles.

Aspiring Employees

Many resumes from students graduating in the very near future have been received. Employers, please contact Tim Petz past-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.

Vail 2003 Photographs



Field Trip #6 – Geologic Hazards of West Central Colorado



Relaxing after a tough day on the job (notice beverage of choice)

We will be posting more as they are sent to us in the newsletter and on the website.
newsletter@aegrms.org.

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.

Parting Words

It has been a very busy fall for us. We apologize for this newsletter being slightly late, but as many of us know, fieldwork tends to take precedence over newsletters. At the time of publication we are having some problems with our website. Ed is working on the issues and hopefully the site will be up and running again very soon. Hopefully we will have a great turnout at the next RMS meeting and at the first Black Hills Chapter meeting.

The Editors
Kristi McQuiddy
Ed Friend



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