



ASSOCIATION OF ENVIRONMENTAL AND ENGINEERING GEOLOGISTS

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

THE ROCKY MOUNTAIN SECTION NEWSLETTER

www.aegrms.org

MEETING DATE

**THURSDAY
NOVEMBER 10th, 2005**

TIME

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

LOCATION

**Berthoud Hall, Colorado
School of Mines
1516 Illinois St.
Golden, CO 80401
See map below**

COST

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

RESERVATIONS

c/o AEG Reservation Line
(303) 264-1030
meetings@aeqrms.org
**BY NOON, TUESDAY
NOVEMBER 8th**

Inflatable Pillows for Tunnel Stabilization

Ray Henn, Lyman Henn.
Denver, Colorado

Dr. Henn will present the results of his recent Ph.D research, which focused on inflatable pillows for tunnel stabilization. Engineering and technical advancements in earth pressure balance and slurry shield tunnel boring machines, precast concrete segments, and segment gasketing systems have allowed for tunneling in environments with increasingly higher ground water pressures. However, these advancements have created a new problem, high pressure flowing water in the annulus between the excavating rock and outside face of the segment ring. These flowing water conditions can make backfilling of the annulus difficult and sometimes impossible. This presentation discusses two systems to help mitigate problems of backfilling associated with flowing water in the annulus. One system is an inflatable circumferential dam and the other is an inflatable segment support pillow system. While these systems were developed specifically for use with tunnel boring machine excavated rock tunnels lined with precast concrete segments, the systems are being reviewed for additional uses to aid in the construction processes of conventionally excavated soft ground and rock tunnels and shafts which employ a "two pass" lining system requiring backfilling of the annulus. An example is a steel or precast concrete carrier pipe installed in an initially supported rock or soft ground tunnel. Dr. Henn's presentation will include a "show-and-tell" session with examples of the various support elements.

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AEG 2006 Annual Meeting

MARK YOUR CALENDARS: AEG-2006 "Northeast Engineering Geology: From Till to Fill" in Boston, Massachusetts; October 30 through November 4 at the Boston Park Plaza Hotel. Special events include: 2 symposia (Big Dig in Boston; and New England State Geologists' Panel -- with the State Geologists from MA, VT, ME, NH, RI, and CT); 4 field trips (The Concord-Lexington Battle of April 19, 1775: A Clash of Continents and Cultures; Geology of Boston Harbor; Influence of Geology on Engineering Design in Boston; and Engineering Geology of the Combined Sewer Overflow Project, Providence, RI); and a Special Event -- Cape Cod Clambake including a tour of Wood's Hole Oceanographic Institute.

For more information, contact Dick Sherman (General Chair) at Dick.Sherman@m-e.aecom.com

NEW! RSVP For Meetings on the Web

There is a new and *easy* way to RSVP for the monthly meetings. Just go to www.aegrms.org and click on "RSVP by clicking here". A short form opens up; fill it out and hit submit. Hopefully some of you will try it and we'll see how it works. Thanks Jill!

Case Histories

We are always looking for individuals to provide their knowledge and experience to the AEG-RMS community through case histories and articles of interest. Please contact Kristi Ainslie at newsletter@aegrms.org if you have anything you would like to share. We have had good success with this in the past, so keep it going.

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 Kristi Ainslie newsletter@aegrms.org.

We had a couple of takers last year; that really helped fill out the newsletter and make it interesting for us all. Thanks! Hopefully past ads have drawn some more attention to this.

AEG RMS in South Dakota

There will be an AEG RMS meeting in Rapid City South Dakota on January 27, 2006. Doug Boyer and Ed Friend will be traveling to give a talk to students at the South Dakota School of Mines and Technology about engineering geology careers. More information to follow.

Upcoming 2005-2006 Presentations

December 9th - Annual Holiday Program, Ken Wright, *Paleohydrology of Machu Picchu*
(NOTE this is on FRIDAY)

January 20th - Executive Council Meeting, Darrel Schmitz
(NOTE this is on a FRIDAY)

February 9th - Annual Student Night

March 9th - Phil Sirles, *Use of Geophysics in Transportation*

TBD - Jerry Higgins, Jahns Lecture.

Words From The Chair

I don't really have much to say this month. Mostly odds & ends. The Rocky Mountain Section held an officer's meeting prior to last month's meeting and some of what follows was brought up at that meeting.

Dues -- If have renewed, thanks. If you have not yet renewed, please do so before we come TP your house. Just kidding. But we are going to try to be more proactive on getting people to renew as well as encouraging new members to join. Sean Harvey of Lyman Henn has agreed to be our membership chair. And don't forget to send in a little extra to the Foundation.

Section Meetings. -- We are investigation the possibility of having section meetings in

Albuquerque and Rapid City. Let us know if you are interested in going.

On a sad note, Win Ivey, wife of the late Jon Ivey, passed away suddenly on October 19. On behalf of the Section, I would like to extend our condolences.

Upcoming events -- Several ideas were discussed concerning a variety of special events including a having a field trip during the spring/summer; a ski trip this winter, a family picnic day, day at the museum, zoo or sporting event, and organizing some kind of public outreach program including, but not limited to arranging section members to speak to schools or teaming up with Dinosaur Ridge to provide volunteers. If you have any ideas or want to get involved, please contact me.

Dwaine



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