



## Association of Environmental and Engineering Geologists

### *Landslide Investigation in an Active Quarry*

#### **Tom Terry, U.S. Army Corps of Engineers**

Formerly with CTL|Thompson, and also as an independent consultant conducted this project.

The Pikeview Quarry rockslide occurred on December 2, 2009, shortly after 7AM. The slide cut off vehicle access to the bottom of the pit. The slide was estimated to be between 1.5 and 2.5 million cubic yards in volume. The slide was about 550 feet high and 950 feet wide, covering about 15 acres. The rubble zone scarp was about 70 feet, and the toe moved out about 80 feet. The first investigation of the site after the slide included reconnaissance geologic mapping, and review of information in the clients and CTL Thompson's files.

This information was utilized for preliminary slope stability modeling for a presentation to the state Mined Land Reclamation Board. A second slide occurred in September 2009. The second slide generated a smaller rubble zone at the toe, but also included additional movements along the upper scarps identified after the first slide. The slope has continued to creep since the second slide, with minor accelerations a few weeks to months after significant precipitation events. Additional field mapping and slope stability analysis was completed in 2010, as part of an effort to amend the mine reclamation permit to allow the client to move forward with reclamation of the facility in a safe manner. The presentation will include a review of the geology which influenced the slide location and size, along with many interesting photos of the slide features.



#### **MEETING DATE**

**Thursday  
October 13, 2011**

#### **TIME**

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

#### **LOCATION**

**American  
Mountaineering  
Center**  
710 10th St.  
Golden, CO 80401  
Conference Room A  
See Map Below

#### **COST**

**\$25 Members  
\$27 Non-members**

#### **RESERVATIONS**

[meetings@aegrms.org](mailto:meetings@aegrms.org)  
or  
[WWW.AEGRMS.ORG](http://WWW.AEGRMS.ORG)

**BY NOON,  
TUESDAY  
October 11, 2011**



# Words from the Chair



Greetings Rocky Mountain Section,

AEG meetings are back up and running. I'm looking forward to hearing about the AEG annual meeting in Anchorage from all of those who made it up north. Although we almost started the year off in September with a steep hike up to Hanging Lake in Glenwood Springs, we had to postpone this exciting trip until possibly next year. We will keep this field trip on our "to do" list though, because it's a great one. On a personal note: I ended up driving with the family up to Glenwood Springs last month and I was reminded of one thing - it is technically dangerous for a geologist to be behind the wheel of a car driving through a place like Glenwood Canyon. Thankfully, my husband was driving and I was free to crane my neck and pontificate about the amazing geology all I wanted. I was also reminded of this during a recent drive from Denver to Crested Butte, of which I was behind the wheel. I know I don't need to tell any of you this, but Colorado is amazingly beautiful!

For most of the year this year we will be meeting at the American Mountaineering Center, since this place seems to work well for our group. The December social meeting (location to be decided, suggestions? keep it at Wynkoop?) and May Student Night (Berthoud Hall, CSM) are likely the only exceptions. After scanning the list of speaker topics for this year, I want to announce a call for environmental talks (either for this year, which is filling up fast, or for next year). We are the Association of Environmental and Engineering Geologists after all. Contact any of the officers, or grab one during a meeting, to let us know of any potential environmental talks or if you know someone who might. That goes for any idea you have, including field trips and other meeting suggestions.

I look forward to seeing all of you and hearing about what's been going on all summer.

Julia Frazier  
Section Chair

## Miscellaneous Deposits

### **Seeking Nominees for Rocky Mountain Section Chair-Elect**

We are seeking a motivated leader to serve as AEG-RMS Chair-Elect for 2011-2012. This person would then serve as the Section Chair for the 2012-13 year. This should be someone who can attend the AEG annual meeting and subsequent board meeting in Salt Lake City in September 2012, and the mid-year board meeting in March 2013, likely in Pittsburg, PA. Anyone interested please contact Julia Frazier at [chair@aegrms.org](mailto:chair@aegrms.org). Thank you.

### **Geology Openings**

There are several openings for experienced geologists with the USGS and some other federal agencies across the nation. Go to [usajobs.gov](http://usajobs.gov) for position and application details.

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