

Association of Environmental and Engineering Geologists

The Rocky Mountain Section Newsletter

JANUARY 2007

MEETING DATE

FRIDAY

JANUARY 12TH, 2007

TIME

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

LOCATION

Ptarmigan Building
3773 Cherry Creek N.
Dr. Suite 290
(Colorado Blvd. and
Cherry Creek N. Dr.)
See Map Below

COST

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

RESERVATIONS

Kristi Ainslie
(303) 264-1030
or
meetings@aeqrms.org
or
WWW.AEGRMS.ORG

**BY NOON,
TUESDAY
JANUARY 9TH**

Please note different meeting day and location (listed on left side of page)

Geologic Aspects of Aggregates in Highway Construction, What Highway Engineers Often Overlook

**Terry West
AEG President**

Rocks are widely used as aggregate materials for construction purposes. The formal definition of an aggregate depicts the wide range of materials and uses: prominent among these are gravel and crushed stone used in concrete and asphalt, plus base courses that support these pavements. Rock strength and durability are important properties of concrete and bituminous aggregates. Strength is indicated by the Los Angeles Abrasion loss and durability by density, absorption and soundness tests. Soundness measurements include: sulfate soundness, freeze thaw and Micro Deval tests on unconfined aggregates. For concrete resistance, the beam freeze-thaw test is also employed. An important addition for carbonate aggregates is the acid insoluble residue test. Results of these tests are directly related to specific rock materials and a detailed petrographic evaluation provides valuable information. Various aggregate and concrete problems can be related to individual rock characteristics to underscore the close associations at work. These important relationships between specific rock materials and behavior of concrete and asphalt pavements commonly are not fully appreciated by material engineers who possess limited geologic training.

Words From the Chair

Happy New Year Everyone!

We had a record turnout for last month's meeting. Everyone enjoyed T.C. Wait's Geology from the Back of a Dog Sled presentation, especially the dogs. We had a lot of friends and family show up and I want to extend a special thanks to T.C. for doing such a great job of help-

ing to emphasize the kindred spirit of our AEG family.

I also want to extend a heart felt welcome to Dr. Terry West and our Executive Council who will be having a meeting in Denver this month. I encourage everyone to attend this month's meeting to show

President West our support and appreciation for his efforts for the benefit of each of us. Thanks and I look forward to seeing you there.



2007 Upcoming Meeting Presentations

February 8, 2007 - Ray Henn and David Kwietnewski - *On Design and Construction of the Lake Pleasant Transmission Rock Tunnel in Phoenix, AZ*

April 12, 2007 - **Student Night!** *New Poster Session Format*

May 10, 2007 - TBD

March 8, 2007 - TBD

DFI Call for Papers - Deadline January 5!



DFI will bring their 32nd Annual Conference on Deep Foundations to Colorado Springs, CO, USA at The Broadmoor, a breathtaking resort facility located at the foot of the spectacular Rocky Mountains. The organizing committee, led by Conference Chairman Dr. Howard Perko of CTL|Thompson Inc. and Program Chairmen Kyle Kershaw, Shannon & Wilson and Scott Anderson, FHWA Federal Lands Highway Office, has issued a call for abstracts-invitation to speakers for the October 11-13, 2007 event.

Abstracts of no more than 300 words are solicited on the broad range of deep foundation topics covering Historic Practice, New Design Methods, Innovative Installation Techniques and Quality Control.

Deadline for abstract submissions is January 5, 2007 and should be submitted online at: <http://216.228.1.34/icpauthrev/loq.asp?siteID=dfi2007>

Formatting guidelines of the papers are available on the submission site, from DFI Headquarters, and also at **www.dfi.org**. All correspondence related to paper submission, including abstracts, shall be directed to:

2007 Program Chairmen
Deep Foundations Institute
326 Lafayette Avenue
Hawthorne, New Jersey 07506
Tel: 973-423-4030 - Fax: 973-423-4031
Email: dfihq@dfi.org

SAGEEP 2007—Denver Colorado

You Are Invited to EEGS' Annual Meeting Symposium on the Application of Geophysics to Engineering and Environmental Problems (SAGEEP) 2007 20th Anniversary

April 1-5, 2007

Denver, Colorado

Make plans to attend what will surely be a memorable and highly informative conference. Online registration is open at <http://www.eegs.org/sageep/index.html>, where you will also find preliminary program details.

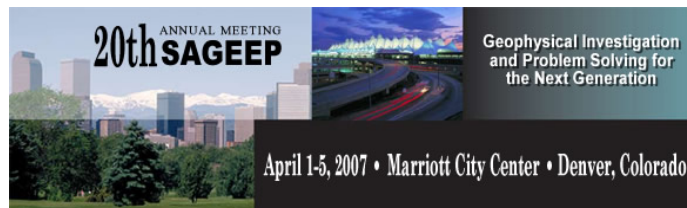
Of particular note are the following:

Geophysicists are not traditionally viewed as those working on humanitarian projects. However, many choose to work on such projects as humanitarian de-mining, groundwater for underserved populations, etc. A special session on humanitarian uses of geophysics will be featured. As well, our Technical Luncheon speaker, Yogadhis Das, Ph.D., will discuss his experiences in the area of humanitarian de-mining.

In celebration of our 20th anniversary of SAGEEP, we are featuring a session on Pioneers in Engineering and Environmental Geophysics - 20 years of progress. Many speakers from the first SAGEEP have been invited! The Keynote presentation this year will take a different shape to reflect this theme. A panel of speakers will discuss the History of Near-Surface Geophysics, the background on the planning of the first SAGEEP meeting, and the evolution of EEGS from SAGEEP.

For SAGEEP 2007 details and a printable symposium preliminary program, please visit <http://www.eegs.org/sageep/index.html>.

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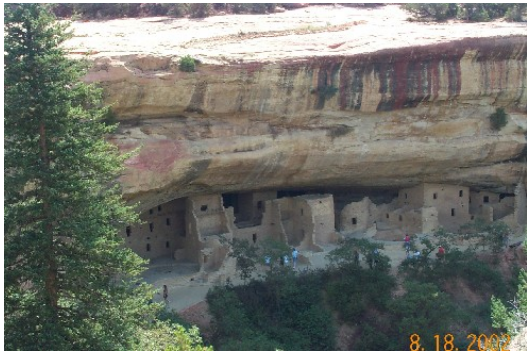
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