

News & Notes...

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Colorado Infrastructure Report Card Debuts October 16 at State Capitol...

The Colorado Section ASCE is nearing completion of the "2003 Infrastructure Report Card" and accompanying "Resource Guide." The Section requests your presence at its release at 10:00 AM Thursday, October 16, 2003, at the Press Room in the State Capitol. For more information on the Report Card please see www.coloradoreportcard.org. If you are willing to lend a hand greeting legislators and the media and assisting with logistics, please contact Steve Fisher at (303) 312-8849.

Rebuilding Together*Metro Denver Is Looking for a Few Good Volunteers...

If you're handy at evaluating properties and buildings, either by avocation or profession, and you're interested in helping out in your community, you want to read this announcement.

Rebuilding Together*Metro Denver (RT*MD), the community service organization that the Colorado Section ASCE has had great success with as a House Sponsor in 2002 and 2003, is calling for volunteers from the ASCE membership to help them evaluate candidate home sites for Rebuilding Day 2004. This assignment would take only a few hours of your time, literally. You would team with a leader(s) in RT*MD to visit and evaluate a prospective Rebuilding Day home site. Your effort would be instrumental in the development of the Rebuilding Day 2004 campaign. Who knows? The Colorado Section ASCE may even be the House Sponsor of one of the home sites that you evaluate.

Please contact John Gormley, Colorado Section ASCE at (303) 858-8008, or via email at gormleyjt@msn.com.

Northern Chapter's October Program Is On "Building Envelopes" ...

The Northern Colorado Branch will be hosting Jana McKenzie from EDAW during its Thursday, October 9, 2003, meeting at the Ramada Inn off I-25 & Hwy 14 [East Mulberry (3836 E. Mulberry St.)] in Fort Collins. Jana will give a presentation on Building Envelopes covering the concept of Healthy versus Unhealthy Buildings. Social hour begins at 6:15 PM. Dinner is \$17 payable at the

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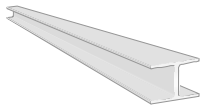
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Structural Group Meeting

Dan Harger, Ryan Redman and Ben Forbes from VSL will be giving an overview of **post-tensioning applications on bridge projects** and will discuss future advancements in the technology. Issues discussed will include grouting innovations and developments in automatic stressing as related to stressing of stay cable bridges. NOTE: This presentation was originally scheduled for last March but was canceled due to the blizzard.



Geotechnical Group Meeting

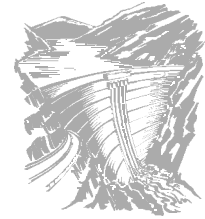
Gary Brierley, Ph.D., Brierley Associates, LLC, will discuss the **design process for large, deep shafts for tunneling projects** and will illustrate his talk with several case histories from his practice. The design of large, deep shafts is challenging and involves many decisions about geotechnical risk and about the impact of shaft excavation and support on nearby existing structures. Ground conditions for most shaft excavations can be highly complex, especially if the shaft extends through the soil/rock interface. Shaft sinking techniques such as caissons, freezing, slurry walls, jet grout, and various "conventional" technologies will be discussed.



Transportation Group Meeting

Bill Van Meter, RTD's Senior Manager of Systems Planning, will present **RTD's FasTracks plan**. Adopted by the RTD Board of Directors in December 2002, the FasTracks plan is a comprehensive program for expanding the Metro area's bus system and rapid transit system in the major travel corridors in the region. Recent declines in financial forecasts have necessitated RTD to develop options to keep the plan fiscally-constrained. Bill will present an update on plan development and field questions from the audience.

Water Resources Group Meeting



Mike Serlet, Colorado Water Conservation Board, and **Blaine Dwyer**, Boyle Engineering Corporation, will provide an **overview of the Colorado River Return Reconnaissance Study**. The study is for a project that would convey Colorado River water near the Utah border for use in the Colorado, South Platte and Arkansas River basins. The conveyance system could be more than 200 miles long and include pump stations to lift the water in the order of 5,000 feet, operational storage, water treatment facilities and tunnels. The presentation will focus on the types of alternatives identified and their general advantages and disadvantages.

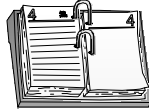
Environmental Group Meeting



Bob Brobst, PE, of the EPA's NPDES Team, was recently assigned to the Hayman Fire BAER Team at the request of the Forest Service and will give a presentation on the **Hayman Fire Burned Area Emergency Rehabilitation (BAER) Team**. BAER Teams are formed after major fires to assess damage caused by a fire and to plan and implement a rehabilitation plan that will prevent loss of life and property and reduce further natural resource damage. EPA's role is to be involved in the decision-making process on emergency rehabilitation and associated implementation within the burn area. The Hayman Fire burned over 137,000 acres with 52% of that in the moderate to high severity burn class. Forest Service hydrologists together with EPA personnel used information from previous area forest fires to model and validate the erosion effects on Cheesman Reservoir as well as the surrounding area. Pre-fire annual soil erosion was approximately 1 ton/acre. The model indicated post-fire erosion will be approximately 86 tons/acre on a severity-weighted average for the whole fire. The size of Cheesman Reservoir will minimize any catastrophic effect from erosion and sediment. However, approximately 40% of the burn was downstream from Cheesman Reservoir, and the Platte River and Strontia Springs Reservoir are more likely to receive the greater impact from the runoff and sediment.

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Northern "Building Envelopes" Program...

door and starts at 6:45 PM. The program is free and will start at 7:45 PM. The meeting is open to the public. Please RSVP to Jim Brady by phone at (970) 416-9045 (leave message with secretary) at Kumar & Associates or via email to jbrady@kumarusa.com by October 7, 2003. For more information, please contact Joe Bergquist at (303) 773-3788.

Younger Member Group...

Its back-to-school time again and the Younger Member Group is hoping that YOU will help us out by volunteering some time as a tutor or teacher. The YMG is continuing their partnership with the Colorado Association of Black Professional Engineers and Scientists (CABPES) through the Math Enrichment Program (MEP) and the Junior Engineers, Tomorrow's Scientists (JETS) program. We are in need of tutors for minority grade and high school students with MEP and in need of teachers for after-school, hands-on Civil

Engineering classes for high school students with the JETS program. If you have any interest please check out the VOLUNTEERS – Tutors and Teachers Needed paragraph in our newsletter at

<http://www.ASCEcoloradoYMG.org/newsletter.htm>

This is a great way to be involved in the community!

The YMG had a great September with people participating in the Jefferson County Trail Day, where we helped to improve the trails in our nearby parks. Younger Members also participated in a Real Estate Seminar hosted by Dave Ohnernick of Keller Williams, where many questions on buying and selling a home were answered. Keep your eyes on our newsletter for upcoming events!

CU-Boulder Now Has the Section's Historic Records...

The Colorado Section ASCE's historic records and files now are being stored under the care of Prof. Stein Sture, Associate Dean, College of Engineering and Applied Science, and are in CU-Boulder's Geotechnical Laboratory in the Engineering Center.



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