

## News & Notes...

### Mark Your Calendars...

Just a reminder that 2004 includes some extraordinary opportunities for Colorado Section ASCE member participation. Please note these dates and plan to be involved:

- February 22-28 - American Council of Engineering Companies Engineers Week (EWeek) exhibit at the Colorado History Museum featuring the Colorado Infrastructure Report Card.
- February 27 (Friday) – The Annual EWeek Colorado Engineers Dinner party (see the November Newsletter).
- February 28 (Saturday) – The Colorado High School Bridge Building Competition (see the November Newsletter).
- April 2-3 (Friday & Saturday) – Annual Rocky Mountain Regional Conference (Regional ASCE Student Chapter Concrete Canoe, Steel Bridge and other competitions) at Colorado State University.
- April 15 (Thursday) – The Annual Colorado ASCE Student Awards Dinner featuring remarks by ASCE President-Elect William P. Henry.
- April 24 (Saturday) – Rebuilding Day with Rebuilding Together\* Metro Denver. The Colorado Section ASCE is a 2004 House Sponsor. To volunteer, contact John Gormley, (303) 858-8008, [gormleyjt@msn.com](mailto:gormleyjt@msn.com).
- May 28, 29 (Friday & Saturday) – The 2004 National Steel Bridge Competition at the Colorado School of Mines.
- October 22 (Friday) – H2GEO, Geotechnical Engineering for Water Resources Conference at the Radisson Hotel Stapleton Plaza, Denver, co-sponsored by the Colorado Section ASCE Geotechnical Group, Colorado Association of Geotechnical Engineers (CAGE) and the Association of Engineering Geologists (AEG).

### They Just Keep Charging! ...

From President Hayes' message in the December '03 Newsletter, you know about the outstanding efforts of the Government & Public Affairs/Report Card Committees to prepare and release the Colorado Infrastructure Report Card. And, many Colorado Section ASCE members attended the Committees' Report Card presentation at the December Holiday Luncheon. Well, the Government & Public Affairs Committee, headed by Steve Fisher, hasn't stopped there!

In addition to the follow-up interviews with radio and television stations and presentations to groups which influence infrastructure funding, the Committee prepared and submitted a first class



## Colorado Section 2003-2004 Leadership Roster

<b>PRESIDENT:</b> 970-498-5724	<b>Roxann Hayes</b> <a href="mailto:rhayes@larimer.org">rhayes@larimer.org</a>
<b>VICE PRESIDENT:</b> 303-858-8008	<b>John Gormley</b> <a href="mailto:gormleyjt@msn.com">gormleyjt@msn.com</a>
<b>SECRETARY:</b> 303-772-5282	<b>Christoph Goss</b> <a href="mailto:christoph.goss@ttrmc.com">christoph.goss@ttrmc.com</a>
<b>TREASURER:</b> 720-898-7740	<b>Edward Stafford</b> <a href="mailto:estafford@ci.arvada.co.us">estafford@ci.arvada.co.us</a>
<b>IMMEDIATE PAST PRESIDENT:</b> 303-277-6620	<b>Mike Glade</b> <a href="mailto:mike.glade@coors.com">mike.glade@coors.com</a>

**Colorado Section ASCE NEWSLETTER** is published 9 times per year on a monthly schedule September through May.

#### Colorado Section ASCE Office

Rich Bogdanovich  
303-758-1445  
FAX 303-756-9777

P.O.Box 101085  
Denver, CO 80250-1085  
[colorado.asce@atglobal.net](mailto:colorado.asce@atglobal.net)

**Section Web Page:** <http://sections.asce.org/colorado>

State Public Affairs Grants (SPAG) proposal for 2004 to ASCE National, entitled "Large Grant Request for Promotion of Colorado Infrastructure Report Card." If awarded, the grant will provide financial support for the Committee to "...expose the Report Card to even wider audiences among municipal and state leaders, the general public, and the engineering profession." The grant also will support the start-up of a video project addressing the infrastructure needs of Colorado.

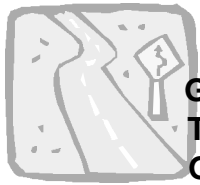
Amidst all of these volunteer efforts, the Government & Public Affairs Committee found time to cooperate with the Northern Colorado Branch in its preparation and submission of a top notch 2004 SPAG proposal to ASCE National, entitled "Small Grant Request for Soderberg Trailhead Community Service Project."

We are indebted to the Government & Public Affairs/Report Card Committees for their tremendous efforts and representations on behalf of the Colorado Section ASCE and Civil Engineering in general. Let us show them our appreciation by supporting their efforts via participation in their events and by spreading the word on the Colorado Infrastructure Report Card wherever and whenever we can.

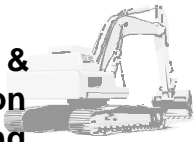
### Rebuilding Day 2004 News...

Farewell, Doug: **Doug Jenevein**, the Colorado Section's Skilled Captain (Project Manager) for Rebuilding Day 2002 and 2003, soon will be moving, with his family, to Nevada for an important project assignment. Doug was a tremendous

(Turn to Page 4 for News & Notes continuation...)

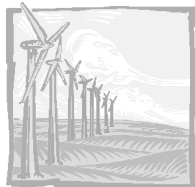


## Joint Geotechnical & Transportation Group Meeting

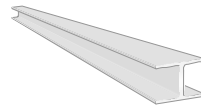


**Jeff Stapleton**, Carter & Burgess' Structural Design Manager for TREX, is overseeing the design and construction of all TREX structural elements including bridges, tunnels and walls and has been on the project for the last 5 years. He will present a **TREX case study from the start to the present for developing geotechnical information, design criteria and requirements for this large design/build project.** His presentation will cover: (1) the EIS phase—historical information, preliminary borings for foundations and environmental investigation; (2) the RFP phase—developing the boring program, writing the geotechnical sections for bridges, tunnels and retaining walls, developing a special technical section for a bored drainage tunnel under Mississippi, and assessing risks; and (3) the Construction/Design Phase—transferring the boring program to the design/build contractor (and his designer), overseeing the design/build contractor and special caisson field testing.

## Environmental Group Meeting



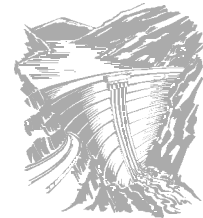
**Jim Hanley**, PE, USEPA Region 8 Remedial Program Project Manager, will give a presentation on the **Shattuck Chemical Superfund Site—A Case Study.** This is one of the last remaining Denver-area radioactive soil sites undergoing clean up under the Superfund Program. Radionuclides of concern are Ra-226, Th-230, and U-natural. A remedy was completed, site materials were stabilized and solidified on-site, and a cover system was constructed. After construction, as a result of actions taken by the community, the City of Denver, and elected officials, EPA conducted a review and subsequently issued an amended ROD which changed the Remedial Action Objectives (RAOs) and required removal and off-site disposal of the monolith and any soil above the new action levels. Based on community concerns that breakup and removal (i.e., mining) of the monolith would release airborne radionuclides, the decision was made to perform the removal operation under a containment structure. Success hinges on the ability to complete the remedy safely, cost-effectively and in a compliant manner within the structures.



## Structural Group Meeting

No program information was available at press time. Please visit the Section website at <http://sections.asce.org/colorado> or contact Chair Taka Kimura directly at (303) 390-5861 or via email to [kimura@pbworld.com](mailto:kimura@pbworld.com).

## Water Resources Group Meeting

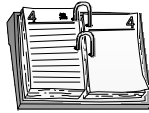


**Stephen Harelson**, PE, **Al Gross**, PE, and **Ina Zisman**, PE, Colorado Department of Transportation, will give a presentation on the **Bighorn Creek Culvert Replacement—East Vail, Colorado.** In the early morning hours of June 1, a sinkhole started forming in I-70 just east of Vail, Colorado. By 2:00 PM, the culvert carrying Bighorn Creek under the highway had completely collapsed and water from the creek was being carried to Gore Creek via the streets of Vail. Over the next 4 days, the Interstate was closed, and the incident became the most publicized single culvert failure in the history of the state. The failed culvert was a 66" corrugated metal pipe of unknown age. Corrosion of the invert, joint failure, and an unusually sustained peak flow combined to cause the failure. Unlike many culvert failures, Bighorn Creek has a USGS stream gage approximately 300' upstream of the culvert which allowed an unusual amount of analysis of the stream flow that immediately preceded the culvert collapse. The old culvert was constructed in the natural creek bed, and the embankment of the roadway was constructed over 40' above the pipe. In the new design, the culvert was constructed at a shallow depth, and then a rundown and a vault impact dissipater took the flow down the embankment back to the creek level. The steep pipe and high velocities were of concern both for pipe durability and stream stability at the discharge point. While the design methods and construction seemed straightforward, the experience was complicated by peak spring runoff and the urgent need to get the highway reopened as soon as possible. The chief reconstruction difficulties were the saturated condition and the presence of large boulders within the roadway embankment. These made shoring and excavation quite difficult. The reconstruction teaches many lessons in both design and the fast track design-build process.

---

## News & Notes...

(Continued from Page 2)



### Rebuilding Day...

project manager for the Colorado Section ASCE Rebuilding Day events. We are indebted to Doug for his service to the community and ASCE. Thank you, Doug and best wishes!

Please Welcome Our New Captains: **Charlie Hemenway** has volunteered to be the Colorado Section ASCE's Skilled Captain for Rebuilding Day 2004. Charlie was one of our volunteer leaders for Rebuilding Day 2003. He is looking forward to scoping and managing our 2004 project and working with the Colorado Section ASCE's Rebuilding Day volunteers.

**Gary Brierley** has volunteered to be the Colorado Section ASCE's Volunteer Captain for Rebuilding Day 2004. Gary is no stranger to Rebuilding Together. He recently relocated his consulting practice to Denver from Boston, where he was the Chairman of the Board for Boston's Rebuilding Together organization.

Time to Volunteer! Preparations for Rebuilding Day 2004 are in progress. Charlie and Gary are participating in the Rebuilding Together\*Metro Denver planning meetings. Our 2004 House will soon be assigned. Then, our Captains' responsibilities will kick into high

---

gear. Help our Captains' planning and preparations by **volunteering now for Rebuilding Day, Saturday, April 24, 2004.** Please contact **Gary Brierley** at [gbrierley@brierleyassociates.com](mailto:gbrierley@brierleyassociates.com) or at (303) 703-1405.

### Younger Member Group (YMG)...

Thanks to all who attended January's 4<sup>th</sup> Annual Kickoff Party at The Mynt Lounge in LoDo! YOU made the party a huge success! It was a great opportunity to meet Colorado's young civil engineers and learn more about the YMG. Our next YMG Happy Hour will be held in the Denver Tech Center on Thursday, February 12<sup>th</sup>. Be sure to check out our newsletter at

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

for Happy Hour details and other exciting upcoming events: ice skating, a DU hockey game, a Colorado Mammoth lacrosse game and our upcoming technical activity—a Colorado Board of Registration presentation on obtaining your professional registration. For those who missed it, look for another tour of the Air Force's Cheyenne Mountain/ NORAD facilities in the near future. If you're interested in becoming a YMG officer, elections will be held in April. Please visit our webpage <http://www.ascecoloradoymg.org/officers.htm> and contact current officers with questions or interest.

---



Colorado Section  
American Society of Civil Engineers  
P.O. Box 101085  
Denver, CO 80250-1085  
(303) 758-1445

NON-PROFIT U.S. Postage <b>PAID</b> Denver, CO Permit No. 82
--

**POSTAL CARRIER: TIME SENSITIVE MAIL  
PLEASE DELIVER BY FEBRUARY 10, 2004**