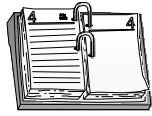


News & Notes...



Rebuilding A Stronger Community...

As you may be aware, both national ASCE and local ASCE sections have established an alliance with Rebuilding Together to help rehabilitate homes for elderly and disabled persons. Rebuilding Together*Metro Denver (RT*MD) is a non-profit organization working in partnership with the community, volunteers, and skilled labor, to stabilize and revitalize homes in our metropolitan area. The RT*MD initiative brings homeowners in need together with volunteers from all walks of life to prevent homelessness and to improve the quality of the lives of our recipients.

Locally, the Colorado Section ASCE has been a House Sponsor for the past three years. Again, we are going to sponsor a rebuilding project for a needy homeowner in Metro-Denver. We are asking for a strong show of support from Denver's engineering community with both donations and volunteers. Each rebuilding project requires approximately \$3,000 in materials, and we would like to raise as much money as possible from donations. We also need volunteers to help out on Rebuilding Day in April 2005. Additional volunteer information will be publicized in the coming months.

Rebuilding Together is a great way to give back to the community and a great way to build a spirit of service within your company. We encourage each engineering firm in the Metro-Denver area to help out with this worthy cause. This year, Gary Brierley is leading the effort in recruiting ASCE House Sponsor Team Members. He'll be connecting with you and your companies soon. In the meantime, don't hesitate to contact Gary at (303) 703-1405 (gbrierley@brierleyassociates.com) with questions or comments, or to volunteer your financial resources and time to this most worthy cause.

Colorado's 5th ASCE National Historic Civil Engineering Landmark Dedicated at Mesa Verde National Park...

Colorado's newest National Historic Civil Engineering Landmark (NHCEL) was dedicated by ASCE at Mesa Verde National Park on September 26, 2004. The dedication ceremony was conducted at Far View Reservoir, formerly known as Mummy Lake, which is one of Mesa Verde's four prehistoric domestic-use reservoirs that collectively form ASCE's newest NHCEL. Far View Reservoir on Chapin Mesa is the only prehistoric reservoir open to the public and was therefore selected as the site for ASCE's NHCEL plaque. Attendees at the dedication ceremony numbered about 35 people



Colorado Section 2004-2005 Leadership Roster

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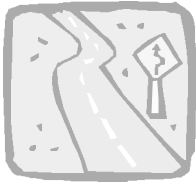
Colorado Section ASCE NEWSLETTER is published 9 times per year on a monthly schedule September through May.

and included ASCE Executive Director Pat Natale, Colorado Section President Roxann Hayes, Colorado Section Vice-President John Gormley, Colorado Section Secretary and Geotechnical Group Chair Christoph Goss, Southern Colorado Branch President Rob Leverington, noted civil



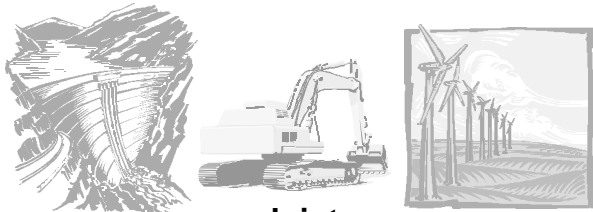
engineering history investigator and author Ken Wright, Ernie Pemberton, History and Heritage Committee Chair Dick Wiltshire, Mesa Verde Structural Engineer Preston Fisher, and Jon Upchurch. After the dedication ceremony, the ASCE contingent and several of Mesa Verde National Park's staff had lunch together at Far View Terrace and enjoyed the two nicely decorated cakes provided by the park staff. Several of the ASCE contingent then enjoyed a tour of the Balcony House site guided by Preston Fisher.

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



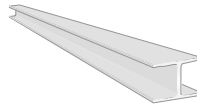
Transportation Group Meeting

Peggy Catlin, Director of the Colorado Tolling Enterprise, will discuss the planning process and factors that led to a **decision to convert the North I-25 High Occupancy Lane to a High Occupancy/Toll Lane**. Under this concept single occupant drivers will be allowed to pay for the use of the lane. This project is challenging in that it involved balancing the needs of car-poolers and transit users along with the impact on the local and state transportation system. She will discuss the physical changes that will be necessary and the operating characteristics of the HOT lane.



Joint Environmental, Geotechnical & Water Resources Group Meeting

Richard Millet, PE, URS Corporation, and **Larry Howard**, City of Loveland, will give a presentation on the **Loveland Water Storage Dam, also known as Green Ridge Glade Dam, near Loveland, Colorado**. The original reservoir had a storage capacity of about 600 acre-feet. The City raised the existing dam in 2003-04 to enlarge the reservoir for increased storage capacity (6800 acre-feet) to meet current and future needs. The original dam was incorporated into the new raised dam by means of a downstream raise, which extended the upstream face of the original dam to a new crest. The new raised dam is a zoned earth embankment dam and was constructed along with a new spillway, intake tower, 54-inch diameter outlet conduit, control house, and new raw water pipeline to the filtration plant. A portion of County Road 29 was relocated from the west side of the old reservoir and routed across the downstream face of the raised dam and along the east side of the new reservoir. New wetland and wildlife corridors were also constructed to mitigate the environmental impact of the new reservoir.



Structural Group Meeting

Kent Montgomery, Figg Bridge Engineers, will discuss the **Four Bears Bridge in north-western North Dakota**. The bridge will span Lake Sakakawea, replacing the existing Four Bears Bridge. The structure is a single cell, precast, segmental concrete box girder with a width of 52'-9". The structure length is 4500' and is accomplished in a single unit, with expansion joints located only at the abutments. Foundation design challenges included substantial ice loads and a lake depth of up to 95' with water level fluctuations up to 40'. The new structure overcomes these challenges with driven pipe piles and footings located well above the bottom of the lake bottom. Precast concrete lost cofferdams serve as an economic formwork for the footings and eliminate the need for costly full-depth conventional cofferdams. The new Four Bears Bridge also includes context sensitive design elements representing the Mandan, Hidatsa and Arikara Tribes. The design elements include sidewalk treatments at each pier, animal images on the pedestrian railing and monuments with linear library elements attached. Large, 12' diameter medallions are also attached to the webs on each side of the box. Aesthetic lighting is provided to light the medallions, pier cap and the box girder soffit. The structure is under construction, with completion scheduled for 2005.

Special Notice...

Colorado School of Mines to Host December Section Dinner Meeting

Thursday, December 9, 2004 (2nd Thursday)

CSM's Ben Parker Student Center, Ballroom A
Check-in 5:30 PM, Dinner 6:00 PM

Speaker: Hy Brown, Professor, CU-Boulder,
Project Engineer, Disney World &
World Trade Center

Topic: Engineering at Disney World

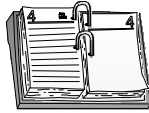
\$25 per person

RSVP before December 1st at rsvp@csmasce.org

Save this announcement!
There will be no December newsletter.
The next newsletter is the January 2005 issue.

News & Notes...

(Continued from Page 2)



Practitioner Advisors Sought for ASCE Student Chapters...

The Colorado Section ASCE is looking for several Practitioner Advisors for student chapters of ASCE in the area. The Colorado Section ASCE has 6 student chapters and several of them are in need of practitioner advisors to mentor the students, provide a link with the section, and support the activities of the student groups. If you are interested or would like more information please contact one of the Section officers (see Page 2 for contact information).

Chuck Childs Is New Partnering Committee Chair...

Chuck Childs, PE, Principal / Municipal Services, Short Elliott Hendrickson Inc., is the new Colorado Section ASCE Partnering Committee Chair. Thank you, Chuck, for volunteering to guide this group in the Section's interactions with a variety of local and

national organizations. Any members wishing to serve with Chuck on this committee, please contact him at (720) 540-6800 (main), (720) 540-6821 (direct) or email to cchilds@sehinc.com.

Younger Member Group

The YMG is having a great fall. We're volunteering with the Math Enrichment Program to tutor minority high school students, continuing to volunteer at the Denver Rescue Mission (a homeless shelter) and are still looking for other community service activities. The 3rd annual Colorado Section ASCE Golf Tournament was rescheduled due to rain, but on September 30th, we had a great turn-out. We're excited that the tournament brought in over \$1,500 and thankful to the Section members who continue to make the tournament a success. We're continuing to plan monthly happy hours (alternating between downtown and the Tech Center), trips to sporting events, technical tours, and many other activities. Upcoming activities include a tour of the Mountain Parkway, volunteering with local organizations, and happy hours. Come join us at any of our upcoming events! Please visit our web site and click on the "Newsletter" tab for current events.

<http://www.ASCEcoloradoYMG.org>



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