

News & Notes...

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Northern's November Program Is On Construction Material Control...

The Northern Colorado Branch will host **Seth Beckman**, San Juan Construction, who will give a presentation on **construction material control on the Diego Garcia project** during the Thursday, November 13, 2003, meeting at the Ramada Inn off I-25 and Hwy 14 [East Mulberry (3836 E. Mulberry St.)] in Fort Collins. The meeting is open to the public. Social hour begins at 6:15 PM. Dinner is \$17 payable at the door and starts at 6:45 PM. The program is free and will start at 7:45 PM. Please RSVP to Jim Brady, (jbrady@kumarusa.com) phone (970) 416-9045 (leave message with secretary) at Kumar & Associates, by Monday, November 10, 2003. For more information, please contact Joe Bergquist at (303) 773-3788.

Start Planning for Engineers Week 2004...

The Colorado Section ASCE has been a sponsor and participant/exhibitor in two important Colorado events during National Engineers Week in recent years. We are hoping for a stronger member participation in 2004. EWeek 2004 is February 22-28. Please plan now to represent the Colorado Section ASCE at the Annual Colorado Engineers Dinner on Friday, February 27, and the Annual Colorado High School Bridge Building Contest on Saturday, February 28. The Colorado Engineering Council (CEC) and the Professional Engineers of Colorado (PEC) are organizing the Colorado Engineers Dinner. The Colorado High School Bridge Building Contest is a major PEC educational outreach event every year and takes place in the U. S. Bureau of Reclamation Laboratory at the Denver Federal Center. We hope to be a sponsor and show a good membership turnout at these EWeek 2004 events.

It's not too early to indicate your interest in these events or suggest other EWeek activities for the Colorado Section ASCE. Please contact John Gormley, Colorado Section ASCE, (303) 858-8008, gormleyjt@msn.com.

Leader Wanted for Section's Educational Outreach Program...

Members, thank you for the great support that you give to the Colorado Section ASCE's educational outreach activities. You have been a real powerhouse with the *Building Big* educational



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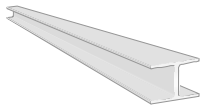
outreach program. By now, Colorado Section ASCE members have introduced about 950 grade-to-middle school students to problem solving and what Civil Engineers do. About 25 of you, including folks from student chapters, the Younger Members Group (YMG) and the general membership, made it happen. About another dozen members volunteered to assist Colorado students and teachers with the West Point Bicentennial Engineering Design Contest. And then there's the remarkable YMG educational outreach effort with the Civil Engineering After School Program and the Math Enrichment Program (math tutoring to minority students).

The YMG programs are going strong, but the general membership educational outreach program has lost its momentum since the 150th Anniversary. We still have the skills, experience and contacts from the *Building Big* program to fall back on, and there must still be a strong interest among our members to help the Colorado Section ASCE make its mark on educational outreach in metro Denver.

What's needed right now is a leader or leaders, one or more individuals to rally volunteers, plan the program and make the contacts to restart our *Building Big* Activity Hours and Build-a-thons or to start new and different activities. You won't have to start from scratch, you'll have the support of a number of members interested and experienced in educational outreach and the backing of the Executive Committee.

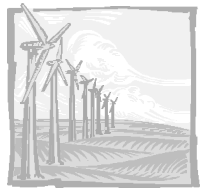
Please contact John Gormley, (303) 858-8008, or gormleyjt@msn.com.

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Structural Group Meeting

Ahmad Ardani, CDOT, will give a presentation on the **Innovative Bridge Research and Construction (IBRC) Program**. The IBRC program is a comprehensive, multi-discipline, multi-million dollar program that was approved by Congress for the six-year period FY 1998 through 2003 and received \$108 million of funding under the Transportation Efficiency Act, TEA-21. The program's primary objective is to promote and foster the application of innovative, emerging technologies in the field of bridge construction and rehabilitation. The IBRC projects in Colorado will be discussed with one of these projects, the **O'Fallon Park bridge reconstruction**, highlighted by **John Guenther** of Parsons Brinckerhoff.



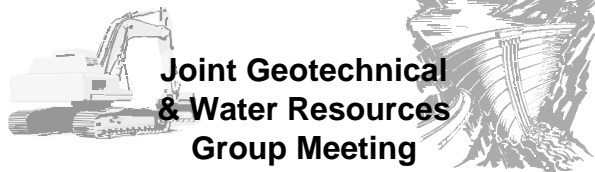
Environmental Group Meeting

Eric Bergman, Director of the Office of Smart Growth in the Colorado Department of Local Affairs, will give a presentation on **Growth Management and Environmental Protection**. As areas around the state continue to experience rapid growth and development, local officials and staff are left to mitigate the impact of this growth on the natural environment. A number of planning tools are available to help local governments establish a regulatory framework at the local level to address environmental protection. This presentation will cover some of these planning tools as well as some local success stories.

2003-2004 Upcoming Meetings

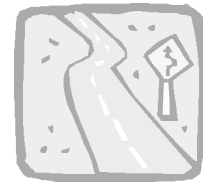
Put these upcoming Section meeting dates on your calendar now so you don't miss them!

- Thursday, December 18, 2003
(Annual Luncheon Meeting)
- Thursday, January 15, 2004
- Thursday, February 19, 2004
- Thursday, March 18, 2004
- Thursday, April 15, 2004
(Annual Student Awards Night)
- Thursday, May 20, 2004
(no June, July or August meetings)



Joint Geotechnical & Water Resources Group Meeting

John Liou, Ph.D., PE, of FEMA Region VIII in Denver, will give a presentation on "**An Introduction to the Three Gorges Project on the Yangtze River.**" The Yangtze River is the longest river in China and ranks third in the world with a total main stem length of 6,300 km. The Three Gorges Project (TGP) is the largest water conservancy project ever built. The TGP is composed of a dam, two powerhouses, 23 bottom outlets (7 m x 9 m), 22 surface sluice gates (8 m) and large navigation facilities. The dam site is in Sandouping of Yichang City, Hubei Province, about 38 km upstream from the existing Gezhouba Project. The spillway section is placed in the center, while the powerhouses are arranged on both sides. The permanent navigation structures are located on the left bank side. The dam is of a concrete gravity type. The total length of the dam axis is about 2,309 m, with the crest elevation at 185 m. There are 26 units of hydro turbine generators. Each unit can generate 700 MW, totaling 18,200 MW of installed capacity that will produce 84.7 T W-H of electricity output annually. The total cost of the TGP is about \$40 billion (US). Construction will take 17 years total divided into three stages from 1993 to 2009. After the project is completed, the total storage capacity of the reservoir will be 39.3 billion cubic meters with the normal pool level at 175 m. It will be the most important project functioning as a backbone in the flood control system to protect the areas in the middle and lower reaches of the river. When the TGP is completed, over 1 million people will have been relocated and over 300 historical towns and cities will be inundated. It is the largest relocation project in history.

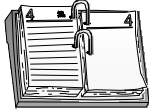


Transportation Group Meeting

Dick Bauman, Chief Engineer for the Northwest Parkway Public Highway Authority, will give a presentation on the **Northwest Parkway** which extends from a directional interchange with I-25 at E470 west and south to US 36 at Interlocken Loop. The Parkway, which will open on November 24, 2003, will be a toll road designed and constructed in 28 months without any public funds and using a design build contract.

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Younger Member Group...

It's 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 teaching assistant. 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 teaching assistants 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!

Check out our newsletter for all the details of our November events! A Toys for Tots happy hour is on Thursday, the 13th, at Jackson's in the Denver Tech Center. The YMG will attend Warren Miller's "The

Journey" film at the Paramount in Denver on Sunday, the 16th. Volunteer at the Denver Rescue Mission Soup Kitchen. The 2nd Annual Pot Luck Turkey Fry & Canned Food Drive is on Saturday, the 8th, at Jacqueline Arcaris' house in Denver. We hope to see you this month!

Prehistoric Mesa Verde Reservoirs Nominated for ASCE Honors...

The Section recently nominated four Prehistoric Mesa Verde Reservoirs for designation as pre-18th Century Historic Civil Works to the ASCE History & Heritage Committee. The reservoirs – Morefield, Box Elder, Far View and Sagebrush Reservoirs – were constructed and operated for up to 350 years between A.D. 750 and 1180 by the Ancestral Puebloans (Anasazi). These four domestic-use reservoirs are outstanding examples of successful prehistoric American water control, storage, transmission, and management long before the European discovery of America. There are no comparable water-storage reservoir projects of this prehistoric period in the US. The civil engineering research on these structures was done by Section member Kenneth Wright (F. ASCE), Wright Water Engineers, Inc., and Wright Paleohydrological Institute, both of Denver, from 1995 to 2003 at Mesa Verde National Park, Colorado.



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