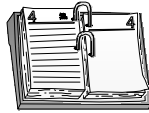


News & Notes...

(Continues with more on page 7)



Water Resources Group May Field Trip Is To Rocky Flats Site...

Friday, May 16, 2003, is the date for this year's Annual Water Resources Group Spring Field Trip. This year offers a unique opportunity for ASCE members to visit the Rocky Flats Environmental Technology Site (RFETS) while it is still in the process of conversion from plutonium processing operations to a wildlife refuge. The tour will last from 9:00 AM. to 1:30 PM and include a 1-hour presentation at the Visitor Center, a 2-hour tour of the site, and a 1-hour Q/A session during lunch at the Visitor Center. Ian Paton and Chris Hawley will lead the tour and serve as van drivers. Topics for the orientation and tour will include the site history, progress towards closure and conversion to a National Wildlife Refuge, stormwater management and the network of automated monitoring stations connected by radio-telemetry, the Rocky Flats Cleanup Agreement and water quality standards, groundwater treatment system, and computer models used to evaluate environmental systems including erosion, water balance, and actinide and VOC transport.

Because Rocky Flats is still subject to security procedures, there are rules we must follow:

1. Regrettably, only U. S. citizens may participate in this tour.
2. No cameras are permitted, and a driver's license or other valid photo ID is required.
3. A completed Official Visitor Information Form must be submitted for each member of the tour in advance as a group.

Consequently, we will **strictly observe** the May 7 deadline. Please obtain the form by contacting Chuck Haines, Wright Water Engineers, Inc., 2490 West 26th Ave., Suite 100A, Denver, CO 80211, chaines@wrightwater.com, 303-480-1700. Alternately, complete information also is being posted on the Section's web page at <http://sections.asce.org/colorado>. Fill out the form down to the "Clearance Level." Social Security numbers are required, but we will make no copies of the forms and will absolutely respect the privacy of all information.

The cost is \$12.00 per person and includes lunch and van transportation at the facility

(Turn to Page 7 for continuation...)



Colorado Section 2002-2003 Leadership Roster

PRESIDENT: 720-286-5762	Jeff Benson jbenson@ch2m.com
VICE PRESIDENT: 970-498-5724	Roxann Hayes roxandmatt@yahoo.com
SECRETARY: 303-858-8008	John Gormley gormleyjt@msn.com
TREASURER: 303-832-9091	John Valsecchi valsecchi@pbworld.com
IMMEDIATE PAST PRESIDENT: 303-277-6620	Mike Glade mike.glade@coors.com
ENVIRONMENTAL TECHNICAL GROUP Co-CHAIRS:	
303-312-7077	Harry Jong jong.harry@epa.gov
303-864-9529	Mark Vanarelli MVanarelli@aol.com
GEOTECHNICAL TECHNICAL GROUP CHAIR: 303-772-5282	Christoph Goss christoph.goss@ttmrc.com
STRUCTURAL TECHNICAL GROUP CHAIR: 303-390-5861	Taka Kimura kimura@pbworld.com
TRANSPORTATION TECHNICAL GROUP Co-CHAIRS:	
303-721-1440	Tom Anzia tom.anzia@fhueng.com
303-480-6746	Jeff May jmay@drcog.org
WATER RESOURCES TECHNICAL GROUP CHAIR: 303-806-8952	Rick Parsons rparsons@bbawater.com

Committee Chairs

Awards	(Vacant)	
Constitution/By-Laws	Vaughan Griffiths	303-273-3669
History & Heritage	Dick Wiltshire	303-445-3042
Government & Public Affairs	Steve Fisher	303-312-8849
Membership	Edward Stafford	720-898-7740
Nominating	Mike Glade	303-277-6620

Special Contacts

150 th Anniversary	John Gormley	303-858-8008
ASCE District 16 Representative	Stein Sture	303-492-7651
CEC Representative	Chuck Mcknight	303-986-1444
Life Member Forum	David Day	303-694-2948
	Kurt Gerstle	303-492-6383
Northern Branch President	Dan Overton	970-223-9600
Web Master	James Gill	303-697-2655
Younger Members Group Chair	Jaryd Takushi	303-390-5861

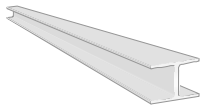
Colorado Section ASCE NEWSLETTER is published 9 times per year on a monthly schedule September through May.

Colorado Section ASCE Office

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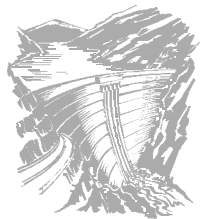
P.O.Box 101085
Denver, CO 80250-1085
colorado.asce@attglobal.net

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



Structural Group Meeting

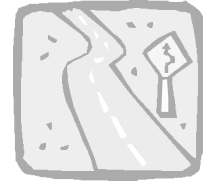
Jim Harris, J. R. Harris & Company Structural Engineers, Denver, Colorado, will speak on **the Pentagon's structural performance as related to the September 11 attack**. Jim is a member of the ASCE Structural Engineering Institute team which studied this topic and whose report recently cleared Pentagon security and has been printed and released by ASCE. The Pentagon, famous for being the largest single office building in the world, was constructed in 16 months beginning in September 1941. The 5-story building is a cast-in-place concrete space frame. The Boeing 757 airplane entered the first story, and the debris traveled approximately 300 feet through the structure. Although a portion of the exterior ring did collapse within a half hour of the impact, the structure exhibited remarkable toughness. Jim will describe the overwhelming forces unleashed within the building, the construction of the building, along with its ongoing renovation, the findings of the ASCE team, and the implications for modern buildings.



Water Resources Group Meeting

John Henz, Group Leader for the Hydro-Meteorological Services Group, HDR Engineering, Inc., will give his presentation originally scheduled for March and canceled that month due to Denver's severe snow storm. The presentation is on **Drought Relief Is Just an El Nino Away...Or Is It?** One of John's responsibilities is to predict spring to summer runoff. Colorado's persistent drought has emptied our reservoirs, browned our lawns and dried up our fields to the point of shared pain. The 2002/2003 El Nino is a moderate one, the 9th strongest since records began being kept in the early 1950's. Normally an El Nino will bring early winter snows, a mid-winter dry spell, a wet late winter and spring and an above average summer monsoon thunderstorm season. Does this current El Nino signal relief is on the way or is it just a brief respite? John will discuss some of the questions that still remain about the likelihood that this El Nino will persist into next year and its ability to produce "an end to the meteorological drought" and the effects of some of the heavy spring snows with regard to the El Nino cycle.

Transportation Group Meeting



The Colorado Section ASCE's Younger Member Group is hosting this month's Transportation Technical Group program which features **Marta de Ron Santiago** of Great Engineering Minds speaking on **Business and Networking**. The focus will be on using ASCE meetings to the greatest advantage.



Joint Environmental & Geotechnical Group Meeting

Kenneth Andromalos, PE, Geo-Con, Inc., will give his presentation originally scheduled for March and canceled that month due to Denver's severe snow storm. The presentation is on **In-Situ Reactive Wall Groundwater Treatment Systems**. Over the past decade the use of in-situ reactive ground-water treatment systems has moved from small pilot-scale applications to full-scale applications. These systems have included various types of "funnel and gate" systems, and more recently because of their ability to eliminate potential groundwater mounding, the use of continuous permeable reactive barriers (PRBs). Depending on soil and groundwater conditions, a variety of installation techniques using traditional open cut and supported excavation techniques and less traditional techniques has been used. These less traditional techniques include the use of continuous trenching machines, the biopolymer (BP) slurry trench technique, jet grouting, caisson installation, soil mixing and vibrated beam methods. Depending on the contaminants, reactive treatment media have included the use of zero-valent iron, activated carbon and biologically active materials, with zero-valent iron having the most wide-use applications. Ken will discuss these various systems and their applications and present several brief case histories to illustrate this rapidly growing remediation technology.

Note:

Thursday, September 18, 2003, is the next Section dinner meeting (no June, July or August meetings).

For President:

Roxann Mackenzie Hayes, PE, M. ASCE, is a Senior Civil Engineer for Larimer County in Fort Collins. Roxann received a B.S. in civil

**Roxann Hayes**

engineering from the Colorado School of Mines and is a registered professional engineer in the State of Colorado. She has almost 7 years experience in transportation/government engineering and project management. Last year Roxann returned to Colorado after having spent time in Houston, Texas. There she was active in the Texas Section and Houston Branch of ASCE. Roxann currently is the Section Vice President and is also on the Board of Directors for the Colorado School of Mines Alumni Association.

For Vice President:

John Gormley, F.ASCE, PE, Ph.D., has been a practicing civil and environmental

**John Gormley**

engineer for more than 35 years. He has lived in metro Denver for the past 24 years. John has served in executive capacities with a number of technical consulting firms and is presently an independent consulting engineer. His practice sectors are primarily mining, water resources and energy development. Since 2000, John has served the Colorado Section ASCE as its 150th Anniversary "Champion," and he currently is the Section's Secretary. As a Colorado Section ASCE officer, he hopes to continue some of the programs initiated during the 150th Anniversary campaign, notably educational and community service outreach and partnering with other professional-technical organizations.

For Secretary:

Christoph Goss, Ph.D., is the resident tunnel engineer with Tetra Tech RMC (formerly Rocky Mountain

**Christoph Goss**

Consultants) in Longmont. He holds a BS in Civil Engineering and a Ph.D. in Mining Engineering from the Colorado School of Mines. His specialty is the design and construction of tunnels, many here in Colorado. He has been a member of ASCE since 1993 and has served as the Colorado Section ASCE Treasurer for two years. He is currently the chair of the Colorado Section ASCE Geotechnical Engineering Group. "I am eager to continue my service with ASCE in a new role. I would sincerely welcome the opportunity to use my enthusiasm and knowledge of the organization to provide strong leadership and support for the Colorado Section."



Please Vote!

Complete the pre-addressed ballot form on the facing page, fold and staple it closed (please do not use tape), add a 37¢ stamp, & mail it postmarked by May 31, 2003.

Thanks!

2003-2004 OFFICIAL BALLOT

Colorado Section ASCE

All ballots must be postmarked no later than May 31, 2003.
Place an X in the [] to vote for officers. Blank lines are for write-in votes.
Vote for only one (1) individual in each officer position.

FOR PRESIDENT

[] Roxann Hayes

[] _____

FOR VICE PRESIDENT

[] John Gormley

[] _____

FOR SECRETARY

[] Christoph Goss

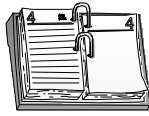
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**A hardcopy May 2003 newsletter was mailed to all eligible voting members,
and only the official printed ballot it contains can be used for the election.**

News & Notes...

(Continued from Page 2)



Rocky Flats Field Trip...

Payment by check must be received together with the registration form and the RFETS Official Visitor Information Form by Wednesday, May 7. Space is limited to 28 individuals and reservations are on a first-paid, first-served basis. Please make checks payable to "ASCE" and return them with the two forms to Chuck Haines at Wright Water Engineers.

The current military action in Iraq might lead to heightened security measures that could conceivably cause the tour to be canceled. However, the tour was approved by RFETS security when this activity was imminent, so we have decided to go ahead with the plans, bearing in mind that cancellation will remain a possibility. In view of this uncertainty, your check for the registration fee will be held until just before the trip and, if necessary, a refund will be made.

Registrations will be taken in the order received up to the limit of 28, which is based on the capacity of 2 vans scheduled to provide group transportation within the perimeter of the site. If there is strong interest and more than 28 want to come, we will investigate the possibility of increasing the number. If we cannot accommodate your registration due to the space limitation, we will void and return your check and shred your registration forms. In any event, you will need to submit your check for \$12 and both forms in order to be registered for the trip.

Northern Chapter May Tour Is To Green Ridge Glade Construction Project...

The Colorado Section ASCE's Northern Colorado Branch will be hosting the City of Loveland along with URS Corporation and SEMA Construction who will give a presentation on and conduct a tour of the Green Ridge Glade construction project. The presentation covering the construction of this project will be given during the Thursday, May 8, 2003, meeting at the Sylvan Dale Ranch located off Hwy 34 on the way to Estes Park. The tour of the construction site will start the same day at 4:30 PM from the SEMA Construction trailer along Waterdale Drive (County Road 27) about 100 meters north of the entrance to the City of Loveland's Water Treatment Plant (WTP). The WTP's address is 3152

Waterdale Drive. You should bring your own safety equipment including sturdy shoes/boots and a hard hat, but if you don't have one they will be supplied on-site.

Tour participants will then be taken around the construction site which now includes excavation for the dam footing and construction of over two miles of new Larimer County Road. Upon conclusion of this tour participants can then proceed to the regularly scheduled meeting at Sylvan Dale. Tour reservations are required.

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 by May 5 to Jim Brady at jbrady@kumarusa.com or by phone to 970-416-9045 (leave message with secretary) at Kumar & Associates. Those interested in the tour also must separately contact Kim Yordt at 970-962-3702 by May 5 to reserve a spot on the van and obtain directions. For more information, please contact Joe Bergquist at 303-773-3788 or go to the NCB ASCE web page.

The Green Ridge Glade Reservoir Construction Project construction cost is around \$13.1 million excluding construction management. The reservoir expansion when completed will extend the capacity from the current 600 acre-feet (a.f.) to over 6,000 a.f, while increasing the surface area from 30 to 175 acres. URS will provide an update on the technical issues associated with a zoned earth fill dam raise from 50 feet to over 100 feet. SEMA Construction will discuss the construction challenges of this project including the dam and road placement of over 1,250,000 cubic yards of material. The City will briefly discuss the history of this project starting in 1981. The presentation will discuss the environmental assessment and mitigation process, the U.S. Army Corps of Engineers Section 404 wetlands permitting, negotiating a carriage contract with the U.S. Bureau of Reclamation and the Northern Colorado Water Conservancy District, and processing of various planning items including the relocation of a county road.

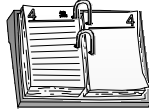
World Trade Center Seminar On Friday, June 13...

Co-sponsored by ASCE, a 1-day seminar on The World Trade Center: The Incident, Investigation, and Lessons for Fire and Structural Safety, will be held from 9 AM - 4 PM on Friday, June 13, 2003, at the Double Tree Hotel, 8773 Yates Drive, Westminster. It will cover the investiga-

(Continued on last page)

News & Notes...

(Continued from Page 7)



World Trade Center Seminar...

tion and lessons learned for fire and structural safety. Prof. Jonathan Barnett, Ph.D., Center for Fire Safety Studies, Worcester Polytechnic Institute, and Prof. James Milke, PE, Ph.D., Vice Chair of the Department of Fire Protection Engineering, University of Maryland, will be the presenters.

Learn from the investigations into the collapse of World Trade Center Towers 1 & 2, as well as 7 World Trade Center, the first protected steel structure ever known to collapse solely from the effects of a fire. The morning program from 9 AM -Noon will cover the FEMA Investigation and will include photos and video. Lunch is provided. The 1PM - 4 PM afternoon program will cover Structural Fire Protection Analysis.

For additional information and for the brochure members can go to the Section website at <http://sections.asce.org/colorado>. Registration is required and the registration fee for ASCE members is \$75, \$100 if postmarked after May 9.

Younger Member Group (YMG)...

Don't forget to join us at some of our upcoming activities: Rebuilding Day 2003, Colorado Crush Game, Financial Planning Seminar, and the start of our third volleyball season. Our next Happy Hour is coming up on Thursday, May 8, in the Denver Tech Center. Please view the YMG monthly newsletter for details of the events at:

www.ascecoloradoymg.org/Newsletter.htm

Elections are currently taking place for the Colorado YMG Officers. Help continue the success of the YMG by voting for one of candidates! If you have not already received a ballot via email, please contact Jennifer Ashworth (ashworth@ircwe.com) so that you can cast your vote! Also, please join us at the May 15 Transportation Group breakout session (see page 3).

Seminar on Engineering Design for Timber Frames, Wednesday-Sunday, May 21-25...

Visit the Timber Framers Guild at www.tfguild.org, or call 413-623-9926 for details. 27 CEU's.



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American Society of Civil Engineers
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(303) 758-1445

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