

News & Notes...

Updating Colorado's Infrastructure Report Card...

The Colorado Section ASCE Executive Committee has decided to update the 2003 Infrastructure Report Card. The topic is doubly timely. First, the collapse of the I-35W bridge in Minneapolis has made infrastructure a national issue of the highest importance. Second the Governor's blue ribbon panels are about to raise the issue of infrastructure at the state level. As the representative of the civil engineering community, it is important that we take an active part in the discussion over the next year. The 2003 report card was a well received and respected effort to define the state and trends in Colorado's infrastructure. This included an assessment of the thousands of miles of roadways, the billions of gallons of water, the 2000 plus dams, and the air that we all breath. The report needs to be updated to the newest information to make it relevant.

A committee will be formed to direct and produce the update. Volunteers are needed in the areas of dams, water supply, wastewater treatment, aviation, roads and mass transit, environmental clean up, solid waste, air quality, bridges and energy. The committee is charged with producing a report by December 2008. If you are interested in helping Colorado obtain the resources necessary to maintain and improve its infrastructure, advance your career, network with knowledgeable professionals, and expand your knowledge of infrastructure needs and funding, contact jeff.laurel.may@gmail.com.

Many Section Members Serve on National ASCE Committees...

The Colorado Section ASCE is fortunate and proud that it has roughly 175 of its 3500 members serving on technical, educational, professional, research, Board and Institute committees at the national ASCE level. This is about 5% of its total membership. These engineers are both serving their profession and the Society in a very meaningful way and stand available as potential resources for the Section and you, the individual member. They can provide up to date information on national programs and activities and help you get your thoughts, ideas and concerns to ASCE's national level. Look for their names, committee affiliations and contact information to come so you can reach them directly.



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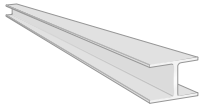
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Joint Structural & Transportation Group Meeting

George Tsiouvaras, PE, and Jeff Simmons, PE, Tsiouvaras Simmons Holderness, will discuss the **Design and Construction of the Highland Bridge**. The third in a family of three signature pedestrian bridges, the Highland Bridge reunites Denver's Lower Downtown with the Highland neighborhood across Interstate 25. This final connection helps the city and county realize its goal of improving the quality of life for residents and visitors of the Central Platte Valley by making the environment more pedestrian and bike-friendly. The design features a triple-rib steel pipe arch rising 70 feet above the ground and spanning 320 feet over I-25. The flared cross-hangar arrangement for the asymmetric cable stays provides a sweeping support system for the suspended bridge deck.



Environmental & Water Resources Group Meeting

Aaron Million, a Colorado businessman and the developer of the Flaming Gorge Pipeline project, will speak on various aspects of the **Flaming Gorge Pipeline project**. If carried through, the Flaming Gorge Pipeline project will convey 165,000 acre-feet of water annually from the Flaming Gorge Reservoir to Front Range communities through a privately funded 400-mile, \$4 billion pipeline. The pipeline will run along existing natural gas pipeline corridors along I-80 through Wyoming and down the I-25 corridor with pump stations powered by natural gas to reduce impacts on the power grid. Aaron conceived the idea for this pipeline project several years ago and has since developed a noteworthy team to aid him in the development of the project, held meetings with the many State and Federal agencies that would ultimately be involved and secured portions of the necessary funding. He will discuss the conception of the pipeline, the hurdles the project has overcome, the benefits to Front Range communities and the remaining planning and permitting.



Geotechnical Group Meeting

Judith Wang, Ph.D., Assistant Professor, Civil Engineering Department, Colorado School of Mines, will speak on the **Battery-Joralemon Street Tunnel**. The tunnel, built between 1903 and 1907, was the first subway tunnel placed in service under the East River between Manhattan and Brooklyn. Both heading-and-bench rock tunneling and pressurized shield soft-soil tunneling techniques were used. Loss of control of the tunneling shield in partially saturated sands caused variations in alignment that made portions of the tunnel nonfunctional. Approximately 3,000 feet of the tunnel had to be reconstructed to enable subway cars to use the tunnel safely. Additionally, due to concerns regarding the stability of the tunnel in the soft soils, piles were installed under the tunnel to bedrock. The project was a crucible for subway contractors and engineers of the Rapid Transit Commission, especially Clifford M. Holland. His experience on the Battery-Joralemon Street Tunnel enabled him to efficiently and safely complete four other East River subway tunnels after the Dual System Agreement of March 1913.

Follow-Up Planned on Ft. Carson Projects

Following up on last year's presentation of the upcoming projects at Ft. Carson, the Colorado Section ASCE plans to have a breakout session at a future dinner meeting during which the USACE will provide updated information on established funding availability and the list of defined projects. In turn, this presentation will be followed up by another session on finding military projects and preparing winning proposals. More information should be available by November and will be announced in the newsletter.

Upcoming Section Meetings:

- Thursday, November 15, 2007
- Thursday, December 20, 2007
- (Likely a joint Holiday luncheon with NSPE)
- Thursday, January 17, 2008

Remember: The former Holiday Inn Denver City Center is now the **Crowne Plaza Denver**. Same hotel, just a different name!

Colorado Chosen for Pilot Mentoring Program

National ASCE has chosen the Colorado Section ASCE to conduct a pilot Mentoring Program. Along with the San Diego Section, this is the only experimental program being conducted at this time. ASCE's objective is to learn lessons from these two programs that will be applied to a national web based system.

The basic concept of this program is to provide a structured system that will facilitate prospective proteges finding mentors to help them achieve specific professional, technical or other objectives during a 12-month period.

National has agreed to support the Founding Group by funding the professional materials to be used in the program. They will also send a representative to Denver to support the start of our program.

Those interested in participating as mentors, proteges or administrators can learn more at the October meeting and by contacting George Puziak at mgpuziak@gmail.com

Reasons to Be A Mentor

by Dr. Linda Phillips-Jones (by permission)

Most people agree that protégées receive enormous benefits from mentors. Selling mentors, however, is becoming more challenging. Successful people are getting busier, and many aren't sure they want to make time to serve as mentors. If you're debating about playing this role, here are some of the most important reasons for investing at least two hours a month (24 hours a year) to help a protégée.

This is a chance to **pay back**. In the past, you may have received good mentoring from someone and never had a chance to show your gratitude to him or her directly. You now have an opportunity to reciprocate and "put something back into the pot." You'll leave the world better than you found it. It's been said before, and it's still true. Taking the time to reach out to others, share your life's wisdom, and convey your respect for them is probably the least expensive and most powerful way to change the world, one life at a time.

You'll **learn**. By serving as a mentor, you'll learn from your protégées. They'll have knowledge you don't have, maybe teach you a new job-specific skill, and help you enhance your people-development skills, which you can use with your own employees and even your family and friends. In the process, you'll also learn more about yourself.

You'll **review and validate** what you know and

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what you've accomplished. Teaching another helps you review and reframe all you've learned about that subject. You'll realize that you've accomplished much more than you thought.

You'll be more likely to move into

"Generativity" (vs. "Stagnation"). Erik Erikson said you'll reach a critical decision point in your mid-to-late-30's. You can give up (moving into a Stagnation phase), or you can thrive, proceeding to Generativity and happy 40's, 50's, 60's, and beyond. You do this by realizing you've been through and mastered much, a new generation is coming behind you, and you have a lot to offer it. Being an effective mentor can actually catapult you into successful Regenerativity.

You'll **help your organization**. Mentoring employees can help give your organization a recruitment edge, shorten learning curves, increase your protégées' job satisfaction and loyalty, and improve productivity and quality.

Younger Member Group

YMG will be shifting gears for the some of the activities this fall. On Thursday, October 11, Todd Hanlin and Jill Preston from Stantec will be presenting a unique project they have been working on in the Grand Canyon area of Arizona. The presentation, **A Village Amid Troubled Water**, will be hosted by Matrix Design Group. As a special incentive, Matrix and YMG will be providing lunch to those who RSVP. Keep an eye out for the YMG newsletter for details.

YMG will also be attending a Denver Nuggets game this winter. Friday, November 30, the Nuggets will be playing the Los Angeles Clippers. If you are interested, please contact Erin Trahan at trahan@pbworld.com. Again, keep an eye on the YMG newsletter for more details.

While we are trying new ideas, we are continuing to plan monthly happy hours, trips to sporting events, technical meetings, museum exhibits and many other activities. Upcoming activities include volunteering with local organizations, technical seminars and happy hours. If you would like to present a project or provide a demonstration to the Younger Member Group, please contact [Colin Haggerty](mailto:Colin.Haggerty@asce.org). Come join us at any of our upcoming events! We are also looking for several officers to help us with our organization. Please visit our web site at

www.ASCEcoloradoYMG.org

and click on the "Newsletter" tab for information on current events.