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Upcoming Meetings:

- **Sat. January 23rd—Future City**
- **Tues. January 26th—UofM 2016 Structural Engineering Seminar**
- **Thurs. February 25th—SAME Joint Meeting with UST**

Frequently Used Links:

- National website at www.same.org
- Post website at www.same-msp.org
- Listing of [Post Leaders](#)
- Listing of [Post Sustaining Members](#)

Next Meeting Presentation
Wednesday, January 20th, 2016

St. Croix Bridge Crossing

Mr. Paul Kivisto

Bridge Construction Manager, MN Department of Transportation

1 PDH

Presentation Synopsis:

The presentation will provide a current update on the progress of the new bridge being constructed across the St. Croix River near Stillwater, MN. This bridge connects the Wisconsin side of the St. Croix to the Minnesota side of the river and is a major key in the transportation network between the two states. It is currently scheduled to be open for use by Fall 2017. The extradosed bridge is a combination of a box girder system with a suspension bridge. This innovative design will minimize the environmental impacts. This system allows for a reduced height and minimized the piers placed in the river, improving the navigability of the river and minimizing the environmental impact.

Speaker Bio:

Paul Kivisto is the St. Croix Crossing Bridge Construction Engineer for the Minnesota Department of Transportation. He received a Bachelor of Civil Engineering degree from the University of Minnesota in 1981. Paul has worked for Mn/DOT for 32 years in Bridge Design, Bridge Management, and Bridge Construction. In his current capacity, he is the bridge construction engineer for the St. Croix Crossing project, and administers the contracts for the bridge construction project.

Meeting Location:

LOCATION CHANGE: **Downtowner Woodfire Grill**, 253 West 7th Street, St. Paul, MN 55102. Free parking next to restaurant with additional across the street by Burger Moe's.

Agenda:

Social time and lunch (if you so desire) will be from 11:30 AM to 12:30 PM. Lunch is \$15/person and a reduced menu will be offered with choices of Chicken Pear Salad (mixed greens with caramelized pears and pecans, seasonal fruit and raspberry vinaigrette), Downtowner Burger (lettuce, tomato, onion with option to add cheese, served with Moe's Fries), or Grilled Chicken Breast (lettuce, tomato, onion on a ciabatta bun, served with Moe's Fries). Presentation will be from 12:30 PM to about 1:30 PM.

Please RSVP **no later than Friday, January 15th**, with your intent to either partake in the lunch or to come for the presentation only; this will help to ensure that an adequate amount of food is prepared. Either leave a message with Michelle Larson at **651-290-5632**, click the RSVP button in the left-hand column of page 1, or send an email to Michelle.J.Larson@usace.army.mil. Please also advise if you have any specific dietary concerns with your RSVP.

Highlights of the Previous Meeting



During December's SAME luncheon, Marni Hogan and Josh Taylor from Mortenson Construction taught us about how design decisions can help improve construction site safety and improve project design performance through building Information Modeling. Based on a European study, approximately 63% of fatalities and injuries were attributed to faulty design decisions and a lack of planning. Constructability meetings should include safety discussions. Some questions that might be asked are: What protective railings are needed during construction? Can durable railings be used and incorporated into the final design? Are tie-offs needed and integrated into the design for the long term? Are accessibility issues addressed for construction, phased construction and finally for the final project's long-term maintenance needs?

Marni and Josh discussed how using Building Information Modeling, you can be in the designed space virtually! With 3D walk-throughs

and a set of goggles, a designer, customer, contractor or even maintenance personnel can travel through the designed space to survey the design for safety and accessibility needs. Viewing the space virtually can help eliminate hazards, promote substitution of features or accessibility improvements that could have benefits for the life of the project. The cost of creating a Building Information Model are small in comparison to the cost and time lost in an injury or conflict.

A 4-D demonstration with scheduling for the Denver Airport was used as another example of the benefits in coordinating with other contractors. Work can be re-sequenced to avoid collisions or overlapping work. Mortenson encouraged getting the trades in early for the projects to help refine the designs with respect to work efforts that could be enhanced by some adjustments detected with the use of the system.

Several SAME members got a chance to try on the "oculus goggles" and walk through a Mortenson Construction Project.



A Note From the President



Readers,

SAME provides many valuable benefits to the membership and perhaps the most important is that of building relationships. As A/E/C industry professionals, we support the Nation's infrastructure from many perspectives, but one thing is clear – we build bridges, literally and figuratively. We rely on various means of networking and collaboration, so you can expect SAME to continue to strengthen this important facet of our profession. Our roles are significant and valuable to our Nation and as we start a New Year, may the success from last year follow you and the shortcomings give way to wisdom.

-Jon Gustafson, Post President

SAME MSP Post Scholarship Applications Are Now Available!

The 2016 Scholarship Application Forms are now available on the [Grants & Scholarships](#) page of the web site, as well as via the links below. It is anticipated that there will again be three **\$1,500** scholarships available. The deadline for submitting scholarship applications is **Friday, April 1st, 2016**.

If you know someone who is deserving of a scholarship, please urge the young person to apply for one the Post's scholarships. Applicants are rated in a number of areas including academics, school activities, and community activities. There are two categories of scholarships described as follows:

Two scholarships are planned to be awarded in what is called Category I, which is for high school seniors and Post-secondary students who are children, grandchildren, or siblings, of members of the Minneapolis-Saint Paul Post. Sponsoring members must be a SAME Minneapolis-Saint Paul Post member for the current year and have been a member of the Post for a minimum of at least one year prior to the current year. Applicants must be registered as full-time post-secondary students in the fall of the year of selection and be majoring in an accredited engineering, science, math, or technology-related field and / or disciplines that will specifically support these fields of study.

One scholarship is planned to be awarded in what is called Category II, which is for all Student Members of the SAME Minneapolis-Saint Paul Post who will be registered as full-time post-secondary students in the fall of the year of selection. Applicants under this category must be registered through SAME as a Student Member; student memberships are free for full-time undergraduates at an accredited college or university, or high school students. This scholarship will be a multi-year (4-yr max) renewable scholarship. The scholarship in this category will be awarded to a student in an engineering, science, or technology-related field.

A committee of Post members evaluates the applications. All applications are kept confidential, and only the winners are announced. For additional information, please contact [Paul Dierking](mailto:paul.dierking@hdrinc.com) at paul.dierking@hdrinc.com or 763.591.5473. Scholarship Application Packages can be downloaded from the Post's website at: <http://same-msp.org/grants-and-scholarships/>

Elmwood Education Grant



The SAME MSP Post awarded an education grant in the amount of \$1,278 to Elmwood Schools for the purchase of 10 graphing calculators. On December 17, 2015, Chris Afdahl and Disa Wahlstrand from SAME were invited to a student presentation on their use of the calculators. They shared how these new tools helped them determine the most efficient size of shipping container and identify a mystery compound density from a known volume and mass. They found applications for their calculators in their materials science and several mathematics classes. . . as will future classes at Elmwood Schools. The students and teachers, Kristel Flesberg and Dan Soules, expressed their appreciation to SAME for the grant and ongoing support of their school's STEM programs.

Exciting Small Business News—Stanley Consultants/City of Saint Paul Event

Stanley Consultants has been selected by the Air Force Civil Engineer Center (AFCEC) to provide architectural and engineering services to support military construction, foreign military sales, military family housing and sustainment, restoration and modernization programs worldwide. Stanley Consultants, in a joint venture with Michael Baker International and Cardno, was awarded an indefinite delivery / indefinite quantity (IDIQ) contract with a program ceiling of \$950 million. The engineering and design work will take place at multiple government sites in the U.S. and abroad. Under the contract, work may be awarded through task orders through 2022.

On January 21st, 2016, the City of Saint Paul is hosting a networking event to highlight 2016 city business and contracting opportunities. For more information, go to <http://content.govdelivery.com/accounts/STPAUL/bulletins/12e7114>. RSVPs required.

**SOCIETY OF
AMERICAN
MILITARY
ENGINEERS
MINNEAPOLIS-
SAINT PAUL POST**

c/o US Army Corps of Engineers
St. Paul District
180 East Fifth Street, Suite 700
St. Paul, MN 55101

Jon Gustafson,
Post President

JGustafson@continentalmapping.com

A Look Into the Future: Volunteers Needed for Future City Competition!



This will be the 14th year that teams from Minnesota have participated in the national Future Cities Competition and will be the 8th year that the SAME M-SP Post will be sponsoring a special award category at the Regional Finals for the team that best addresses "Readiness for Natural and Man-made Disasters. The M-SP Post needs the assistance of four volunteers on the morning of **Saturday, January 23, 2016 at Dunwoody College of Technology** to help select the team to receive our special award. If you are interested in volunteering, please contact **Peter Allen** at peter.allen@stantec.com or 651-604-4801.

Habitat for Humanity—Volunteers Needed!

The SAME-MSP post is looking for volunteers to help with our annual Habitat for Humanity event on February 20th, 2016. We are looking for 10-13 volunteers to help from 8:30 AM to 4 PM. Please contact **Rebekah Hudson** at rebekah.hudson@jedunn.com if you'd like to sign up. Lunch and T-shirts will be provided for all volunteers!



Join the Fun of Explore Engineering!

The Minneapolis-St Paul Post of the Society of American Military Engineers (SAME) is sponsoring a Science, Technology, Engineering, and Mathematics (STEM) themed event that will take place at Valley Middle School of STEM in Apple Valley, MN. The event, called Explore Engineering, will include hands-on STEM activities plus demonstrations from local robotics and science groups.

Volunteers from the Post are sought to help make this a fun and exciting learning experience for the students and their families. If you would like to help with this event, please contact Rachel Pichelmann at 651-490-2000 or rpichelmann@sehinc.com.

Date: Thursday, February 11, 2016

Time: 6-8 PM (Volunteers are asked to arrive at 5:30 PM)

Location: Valley Middle School of STEM, 900 Garden View Dr, Apple Valley, MN 55124

Have you been featured in TME?

If any member has submitted an article for publication in TME or any other professional magazine or journal, please let Ann Banitt know by e-mail no later than **Thursday, January 14th**. You can reach Ann at ann.m.banitt@usace.army.mil with the article topic, what publication, and date your article was published.

Do you have a great idea for our next meeting?

The SAME-MSP Post is looking for speakers and presentation topics for our 2016 year! Please contact Shawn Pelowitz at shawnpelowitz@ctagroup.com with your ideas!

Thank you to our November speaker, Dr. Deborah Besser!



Dr. Besser presented on SciMath MN Focuses on Promoting STEM in the Community. Thanks for your great presentation!

www.same-msp.org

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American Military Engineers
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