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SAME-MSP MARCH MEETING: 03.25.2020

COLLAPSE OF THE INNOVATIVE FIU PEDESTRIAN BRIDGE

1.0 PDH

Scott Snelling, PE | U.S. Army Corps of Engineers, St. Paul District

The University City Prosperity Pedestrian Bridge collapsed during construction killing six people and injuring ten people on 15 March 2018. The selection criteria for this design-build project were weighted heavily towards innovation. Innovative aspects of the project include:

- ★ Unique, complex structure type: post-tensioned concrete truss with faux cable-stays.
- ★ Accelerated bridge construction using a self-propelled modular transporter.
- ★ Self-cleaning titanium dioxide concrete.

The superstructure design and engineering was accomplished on a budget of \$103 thousand, or approximately 10 hours per drawing; significantly less than industry norms. This presentation will provide a case-study of the risks to simultaneously pursuing multiple innovations on a tight budget and schedule.



Speaker Biography:

Scott Snelling, PE is a mechanical and structural engineer with nineteen years' experience in the design, inspection, and construction management of heavy civil works. Scott has served as the Engineer of Record and Technical Lead for the new design and rehabilitation of numerous movable structures, including movable bridges, cranes, stadium roofs, and railroad turntables.

Meeting Details: **Wednesday, March 25, 2020**

Location: Grumpy's Bar and Grill ([2801 Snelling Ave. Roseville, MN 55113](https://www.google.com/maps/place/Grumpy's+Bar+and+Grill/@44.9555556,-93.1055556,15z))

Time: 11:30am-1:30pm, presentation starts at 12:30pm

RSVP: Friday March 20, 2020

For more details and to RSVP, please use the following link: <https://www.same.org/Get-Connected/Find-a-Post/MPLS-STPL/News-Updates/Monthly-Meeting>

UPCOMING CONFERENCES

Tis the season for conferences in Minnesota:

- ★ The **Minnesota Transportation Conference** on March 3-4 in Saint Paul
- ★ Call for Proposals for the **2020 National Coastal and Estuarine Summit** in Providence, RI are due April 3, 2020
- ★ 21st Annual **SADBOC Government Procurement Fair** on April 23rd in Brooklyn Center.

CONNECT WITH US!

In addition to revamping our newsletter and website, the Minneapolis-Saint Paul Post is now socially savvy! We encourage you to check out our Facebook and LinkedIn pages and stay up to date on the happenings at our Post.



<https://www.facebook.com/SAMEMSP/>



<https://www.linkedin.com/company/same-msp-post/>

SAME-MSP NEWS AND UPDATES

Mark your calendars, there are plenty of upcoming opportunities to get involved with the Minneapolis-Saint Paul Post!

HABITAT FOR HUMANITY SAVE THE DATE



We need volunteers to help us with our Habitat for Humanity. We need volunteers to help us with our Habitat for Humanity Event (HFH) that will be held on Saturday, March 21, 2020, at an existing home at 144 Gresham Avenue North in Oakdale, MN (east of St. Paul). This is an existing home that is being rehabilitated by HFH for a family that has not yet been selected. You do not need to be handy with tools. The on-site HFH supervisor will teach you everything you need to know. We need volunteers for a variety of tasks many of which require no construction skills. The event runs from 8:30 AM to 4:00 PM, however, you can assist for as little as one hour or just stop by and visit the crew. This is a fantastic opportunity to give back to our community by assisting families who need help with a first home purchase. It is a rewarding way to spend a Saturday in March. If you want to sign up and/or would like additional information, please contact Kenton Spading, P.E. who is leading the efforts for this event. You can reach him at: kspading@comcast.net or text or call him at 651-272-7970.

You have the power to make a difference. Habitat for Humanities' mission is to eliminate poverty housing from the Twin Cities and to make decent, affordable shelter for all people a matter of conscience. Their vision is a Twin Cities region where families can own homes in healthy neighborhoods with access to jobs, transportation, and quality schools.

CENTENNIAL CELEBRATION

SAME, which was founded in 1920, is turning 100 this year. The stated goal in 1920 in part was and still is: "to promote solidarity and co-operation between engineers in civil and military life....and to preserve and maintain the best standards and traditions of the profession, all in the interests of patriotism and national security."

The Minneapolis-Saint Paul Post is 99 years old. The MSP Post Centennial Celebration Planning Committee is planning centennial events for our members. Stay tuned for upcoming announcements on how we plan to celebrate our centennial anniversary! If you have any questions or would like to get involved, please reach out to [Kenton Spading](#), [Peter Allen](#), [Jon Gustafson](#), or [Chris Erickson](#).

HAVE AN INTERESTING PROJECT TO SHARE?

Consider writing an article for our newsletter! If you have any ideas or suggestions for the newsletter please reach out to Katy Thompson at katy.thompson@respec.com

PRESIDENT'S UPDATE

For those of you who attended the February meeting, thank you! I hope you enjoyed the presentation by **Melissa Meisgeier** and **Paul Schulz** from the Flint Hills Resources – Pine Bend Refinery on managing inter-generational workforces. I know they covered many topics that were relevant, at some level, to many of our own professional experiences. Next month, we will meet on Wednesday (3/25) at Grumpy's in Roseville. We have reserved the larger room to accommodate our joint meeting with ASCE and I am really looking forward to the presentation on the Florida International University Bridge Collapse. Please join us to learn more about the findings from the examination of failure.

Please consider becoming more involved with SAME. We are needing additional help and have several great opportunities to get involved, including the following:

★ **Habitat for Humanity**

Our Habitat for Humanity Event is coming up soon and will be held on March 21st, 2020. We are hoping to increase our participation this year, so please consider volunteering your time. This is a fantastic opportunity to give back to our community and a rewarding way to spend a Saturday afternoon in March. If you are interested and would like additional information, please contact [Kenton Spading](#) who is leading the efforts for this event.

★ **Chair of Continuing Professional Competency Committee**

We have been so blessed to have had Michelle Larson help us with our planning and execution of Professional Development Hours for our programs. However, Michelle will be leaving for a temporary duty assignment in Brazil this year. **WE REALLY NEED YOUR HELP AND HAVE LESS THAN A MONTH TO FILL THIS POSITION!** If anyone is interested in becoming more involved with our post, this is a great opportunity. Please feel free to reach out to me or [Michelle Larson](#) if you are interested. Michelle is more than happy to assist with the transition and would be happy to answer any questions that you may have.

Thank you for being a member and I look forward to seeing you next month at the Habitat for Humanity event and/or at the joint ASCE meeting!

Jane Flewellen
SAME-MSP Post President
Direct: 763.287.3464
Email: jane.flewellen@mortenson.com



Congratulations to Christine Afdahl!



Please join us in congratulating Chris Afdahl for receiving the **2020 SAME Post Service Medal!** For 29 years, Christine has attained a remarkable level of experience through involvement in numerous roles, including multiple board and chair positions. Christine has served as Junior Vice President, Committee Chair for Memberships, Post Vice President in 2009-2010, and Post President in 2010-2011. Throughout the years, Christine Afdahl's involvement in the MSP post can be described as thoroughly dedicated, continually focused, and an ever-willing volunteer. This award is well deserved.

Congrats Christine!

SAME-MSP POST SCHOLARSHIP APPLICATIONS

The 2020 Scholarship Application Forms are now available on the SAME-MSP [STEM Outreach](#) page, as well as via the links below. The SAME Minneapolis Saint Paul Post will be granting three scholarships: two (2) one-time \$1,500 scholarships and one (1) \$1,500 multi-year scholarship (\$6,000 max). The deadline for submitting scholarship applications is **Friday, April 3rd, 2020**.

If you know someone who is deserving of a scholarship, please urge the young person to apply for one of the Post's scholarships. Applicants are rated in several areas including academics, school activities, and community activities. High school seniors and Post-secondary students are eligible if they are either:



- ★ **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.
- ★ **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.

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.

A committee of Post members evaluates the applications. All applications are kept confidential, and only the winners are announced. For additional information, please contact Erin Krug at Erin.E.Krug@usace.army.mil or 651.290.5576. Scholarship Application Packages can be downloaded from the Post's website at: <https://www.same.org/Get-Connected/Find-a-Post/MPLS-STPL/STEM-Outreach>

SAME-MSP POST EDUCATION GRANT APPLICATIONS

The 2020 Education Grant Application Forms are now available on the [Grants & Scholarships](#) page of the web site, as well as via the contacts below. The SAME Minneapolis-Saint Paul Post is offering educational grants for up to \$3,000 for elementary and secondary schools for the upcoming 2020-2021 school year. Our fundamental goal of SAME is to “Promote and understanding of, and appreciation for, the engineering-related disciplines and to help the young people in our communities become better prepared to become our future engineers.”

The Minneapolis-Saint Paul Post is requesting applications from schools and classroom teachers who are:

- ★ Committed to supporting the math and sciences that support future engineering-related career opportunities; and
- ★ Located within a 100-mile radius of Saint Paul, Minnesota.

Applications will be reviewed on the following criteria:

- ★ Creativity and quality of the proposed project;
- ★ Demonstrated demand or need for the project; and
- ★ Support of the Minnesota or Wisconsin math and/or science academic standards.



The deadline for submitting scholarship applications is **Friday, April 3rd, 2020**. For additional information, please contact [Chris Erickson](#) for more information.

FEBRUARY MEETING HIGHLIGHTS

In case you missed out February meeting, we were honored to have Ms. Melissa Meisgeier and Mr. Paul Schulz from the Flint Hills Resources – Pine Bend Refinery on managing inter-generational workforces. Their presentation covered how to lead through change, stereotypes of various generations, similarities between the generations, and different models and approaches to develop talent in a changing environment.

As we are entering the fourth industrial revolution, the changing roles of technology in our daily work life is upending what we thought of as stable careers. Employees may resist adopting new technology or change, but it may not be for the reasons you think. Change is hard and creates unease in the workforce, but that is completely normal. Validate these feelings as a leader but seek to understand what your employees are feeling and help them find ways to move past it. Be sure to acknowledge the wealth of information and lessons-learned by previous generations and how valuable it is to pass that along to the next generation.



February speakers Melissa Meisgeier and Paul Schulz with Post President Jane Flewellen.

SAME ENGINEERING & CONSTRUCTION CAMPS

SAME has been supporting science, technology, engineering, and math (STEM) events for over 30 years and conducting camps for almost 20 years. Our camps are world-class and feature a very impressive record of producing thousands of engineers and STEM leaders. They provide a rigorous experience for students interested in exploring STEM skills and careers. Campers gain a sense of what it takes to become a STEM professional and what options exist to explore that interest from high school to college and beyond. Each camp has a unique curriculum that generally features hands-on activities conducted in a competitive environment that promote teamwork, leadership, project management, and problem solving.

Campers are supervised by mentors made up of professional engineers, engineering students, military personnel, educators, and other STEM professionals. These mentors are committed to inspiring campers to pursue STEM in college. Mentors are also resources for the campers, providing long-term connections for our alumni.

Each camp has a unique curriculum that features hands-on activities conducted in a competitive environment that promotes:

- ★ Teamwork
- ★ Leadership
- ★ Project Management
- ★ Problem Solving

Who may apply? At a minimum, students must meet the following criteria:

- ★ Be a U.S. citizen
- ★ Be at least 15 years old
- ★ Completed freshman year by the time they depart for camp.

Applications for SAME Engineering and Construction Camps are due by **March 31, 2020**. For more information and application forms, please visit <https://www.same.org/STEMCAMPS/Camps>

WIN A TRIP TO THE 2020 JOINT ENGINEER TRAINING CONFERENCE & EXPO!

The SAME-MSP Post has budgeted to send one of our young members to this year's [Joint Engineer Training Conference & Expo in Washington, DC!](#) SAME-MSP will cover the registration, 3 nights of lodging, and airfare (up to \$450) to and from the conference. All you need to do is send [Jane Flewellen](#) an email by **March 30, 2020** indicating your interest and what you hope to learn from the event. We do ask that whoever is chosen will fulfill one volunteer shift at the conference and kindly attend the June or July monthly meeting and provide a brief overview for future participants.



2020 SAME DAY – SAVE THE DATE!

Summer is just around the corner, especially with the unseasonably warm temperatures this month! Time to start thinking about this year's **SAME-MSP Industry Day**, tentatively scheduled for July 22nd!

Are you interested in presenting on a topic of interest, becoming a sponsor for the event, or just generally being involved in the event planning? If so, please reach out to [Rachel Pichelmann](#) or [Chris Afdahl](#).

SUSTAINING FIRMS UPDATES

JOB NOTICES

U.S. Army Corps of Engineers, St. Paul District is seeking a Civil Engineer to perform civil/site design and analysis for horizontal construction projects. These projects support inland navigation, flood risk management, environmental restoration and emergency response to disasters. For information and to apply, go to:

<https://www.usajobs.gov/GetJob/ViewDetails/558890800>. Please contact Gary Wolf with questions at gary.c.wolf@usace.army.mil or (651) 290-5288.

U.S. Army Corps of Engineers, St. Paul District is seeking a Senior Structural engineer to resolve complicated engineering problems and make decisions on the design, analysis, and evaluation of project features. These projects support inland navigation, flood risk management, environmental restoration, and emergency response to disasters. For more information and to apply, go to <https://www.usajobs.gov/GetJob/ViewDetails/547524600>.

Please contact Mike Dahlquist with any questions at michael.s.dahlquist@usace.army.mil or at (651) 290-5571.

THANK YOU!

Thank you to all our Sustaining Firms – SAME-MSP appreciates your support and want to make sure all our members are aware of it, too!

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|--------------------------------|--------------------------|
| ★ AECOM | ★ HDR Engineering |
| ★ AMEC Foster Wheeler | ★ HNTB Corporation |
| ★ Anderson Engineering of MN | ★ Jacobs |
| ★ Ayres Associates | ★ Landmark Environmental |
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| ★ Bergmann Associates | ★ Parsons |
| ★ Burns & McDonnell | ★ Quantum Spatial |
| ★ Cardno Inc. | ★ Rani Engineering |
| ★ CH2M Hill | ★ RSP Architects |
| ★ Eaton Corporation | ★ SEH |
| ★ EMR Inc. | ★ Stanley Consultants |
| ★ Hammel Green and Abrahamson | ★ Stantec |
| ★ Hanson Professional Services | ★ Weston Solutions |

Did you know that as part of your sustaining membership we encourage you to talk about yourselves to our members?

Please email Sherry Van Duyn at svanduyn@landmarkenv.com or Dave Ausdemore at dave@hsscience.com if you would like more information on how to get involved!

SMALL BUSINESS CORNER

Mark your calendar for the 21st Annual SADBOC Government Procurement Fair at the Earle Brown Heritage Center in Brooklyn Center on April 23rd. This trade fair is intended to provide opportunities and assistance to small businesses interested in pursuing Government contracts.

Deadline for registration is April 11, 2020 – for more information please visit: <https://minnesota.feb.gov/programs/sad-boc>



Have an idea for future meeting topics or tours? Please contact Matt Redington with your suggestions at matthew.redington@hdrinc.com or 763.591.5487!

same.org/mpls-stpl

