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UNSUBSCRIBE or **SUBSCRIBE** to the monthly newsletter.

VIRTUAL MEETING: 03.17.2021

USACE Climate Preparedness and Resilience Guidance, Tools, and Applications 0.5 PDH

The focus of the presentation will be the Corps' overall policy as it relates to incorporating the impacts of climate change into civil works project planning, design and management. Chanel Mueller will also preview the Corps' tools related to accounting for climate change impacts on inland hydrology and sea level and provide an overview of what kinds of products can be anticipated in the future.

Presenter Biography:

Chanel Mueller, PE is a Registered Professional Civil Engineer (MN) currently working as a hydraulic engineer for the St. Paul District office. She has over 10 years of experience working as a hydraulic engineer with the U.S. Army Corps of Engineers. She has a Bachelor of Civil Engineering from University of Wisconsin and a Master of Civil Engineering from the University of Minnesota. Her expertise is in hydrologic modeling, reservoir modeling, extreme event modeling, statistical hydrology and climate change science. As a hydrologic engineer she has supported dam safety analysis for Monticello Nuclear Power Plant, Mississinewa Dam and Reservoir and Lake Darling Reservoir. She has completed hydrologic analysis in support of numerous feasibility studies including the Fargo Moorhead Metropolitan Area Flood Risk Reduction Project and the Souris River Flood Risk Reduction Project, including serving in an integral role to the International Agreement governing the operation of the Souris River Project. Mrs. Mueller serves as a subject matter expert in inland hydrology for the Corps' Climate Preparedness and Resilience Community of Practice (CPR SubCoP). She led the development of quantitative inland hydrology and climate change guidance and is considered an expert on statistical hydrology and climate change assessment and has presented on statistical methods and conducting climate change analysis within the district, the division and at both statewide and national scale conferences.



Details: Wednesday, February 17, 2021 at 12:00pm-1:00pm CST

Cost: SAME Members: FREE, Non-Members: FREE

Location: ONLINE (details to be provided with Eventbrite receipt)

RSVP: <https://www.eventbrite.com/e/same-march-post-meeting-tickets-145298087491>

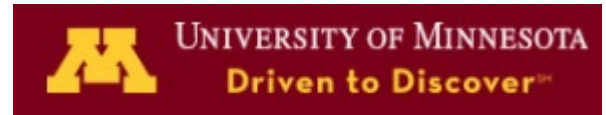
Please note, the MSP Post will continue to provide monthly programming on a virtual platform through spring 2021. The events will be free for all attendees. PDH credits will be provided when applicable, so please make sure you register for the event. The Post continues to evaluate the feasibility of holding in-person events in 2021 and will continue to keep members updated via the Post newsletter and website.

SAME-MSP CLASSIFIED

Mark your calendars, despite the pandemic, there are still some upcoming virtual events and opportunities!

MINNESOTA WATER RESOURCES CONFERENCE

The Minnesota Water Resources Conference Planning Committee is accepting abstracts for the 2021 Water Resources Conference which will be held October 19-20, 2021! Abstracts for presentations and posters will be due Friday, April 16th. Nominations for the Dave Ford Award are also being accepted for an individual who has an extended history of contributing to the betterment of water resources in Minnesota. Check out the U of MN website for more detail and submittal instructions. <https://conference.umn.edu/minnesota-water-resources-conference>



2021 SAME VIRTUAL CAPITAL WEEK

Attendees can expect to hear from participating agencies including the U.S. Army Corps of Engineers, Naval Facilities Engineering Command, Air Force Civil Engineer Center, Army Installation Management Command, Army & Air Force Exchange Service, Bureau of Overseas Buildings Operations, National Nuclear Security Administration, U.S. Customs & Border Protection, General Services Administration, Department of Veterans Affairs, and the Defense Health Agency. The event will include one-on-one appointments where you can connect with others to discuss the needs of your organization and booths from our sponsors and exhibitors where you can learn more about the products and services they offer. For more information, please visit the official website: <https://www.samecapweek.org/index.cfm>



2021 SAME VIRTUAL JETC

VJETC 2021 will be an immersive virtual experience that showcases the best of SAME. From connecting with colleagues to enhancing your knowledge base, from discussing the services and products from our exhibitors to strengthening your company and agency, VJETC is the place where it all happens. We invite you to grow, connect and excel during this virtual event made specifically with you in mind. For more information and to register, please visit: <https://www.samejetc.org/index.cfm>



2021 WEF STORMWATER SUMMIT

The 2021 Stormwater Summit will be held from June 21-23, 2021 in Minneapolis, Minnesota. This Summit is crafted to deepen the technical knowledge of professionals involved in stormwater and provide forums where leading issues in the sector are discussed. The conference will include oral presentations, interactive discussions, pre-conference workshops, exhibits, mobile sessions, opportunities for networking in dynamic settings, as well as virtual components. For more information use the following link: <https://docs.google.com/document/d/13Qv2h-P4YuSXJXCqfH29i5rZNIISajCmnmkvkeDbtFE/edit?usp=sharing>



DONATIONS

Every year, the Minneapolis - St Paul Post of the Society of American Military Engineers (SAME-MSP Post) offers up to \$6,000 of educational grants to elementary and secondary schools. These grants serve to achieve a fundamental goal of SAME: "To promote an understanding of, and appreciation for, the engineering related disciplines and to help the young people in our communities be better prepared to become our future engineers." The on-going coronavirus pandemic has had a big impact in our lives and in our fundraising capabilities. To continue supporting our STEM community, the SAME-MSP Post would like to respectfully request your help in the form of a donation. All donations will go towards helping us to achieve the goal of providing educational grants for the schools and classroom teachers who are committed in supporting the math and sciences that support future engineering-related career opportunities. Please consider [donating to the SAME-MSP Post's PayPal](#) if you can and help support the next generation of engineers. Thank you for supporting our community!

PRESIDENT'S UPDATE

I hope you all had a wonderful February and are looking forward to moving into March, when the days get even longer, and the weather starts to warm up. This month the Minneapolis-Saint Paul Post will be having its annual joint meeting with the Minnesota Section of the American Society of Civil Engineers (ASCE). Like many events last year, our joint meeting with ASCE was cancelled due to COVID-19. Even though it will be virtual, I am grateful for the opportunity for our two organizations to come together again this year to provide valuable programming to our members.

I am excited for this month's program, where we will feature **Chanel Mueller**, a hydraulic engineer for the US Army Corps of Engineers St. Paul District. Mrs. Mueller will be presenting on USACE Climate Preparedness and Resilience Guidance, Tools and Applications. I think this is a topic that can provide valuable insight to all attendees, regardless of technical background, so please share this educational opportunity with others!

Please note the recent change in registration for our monthly meetings—we are now using Eventbrite! A link is included in this newsletter, as well as on our website. We understand that some of our members are having difficulty accessing the Eventbrite page due to firewalls on Government or corporate computers. **If you are unable to access the Eventbrite page to register, please reach out to Dan Kvasnicka** via email at Daniel.kvasnicka@hdrinc.com and he can get you registered via email. We don't want you to miss out!

Thank you to those who were able to join us for our February 2021 meeting. We were fortunate enough to have **John Murphy**, a PhD Candidate at the University of California (UC) Berkeley and a Research Civil Engineer at the U.S. Army Research and Development Center (ERDC) Geotechnical and Structures Laboratory (GSL), present on The Material Point Method (MPM) and its use in geotechnical engineering applications. Thank you, John!

Finally, as many of us continue to work primarily in a virtual setting, I recommend that you also check out some of our neighboring Posts websites for additional educational and networking online opportunities. I feel this has been one of the positive changes for me as a SAME member—having the opportunity to interact with other Posts on a regular basis, without the barriers of travel and schedule constraints. Below are some links—please check them out!

- ★ Rock Island - <https://www.same.org/Get-Connected/Find-a-Post/Rock-Island>
- ★ St. Louis - <https://www.same.org/St-Louis>
- ★ Omaha - <https://www.same.org/omaha>
- ★ Denver Metro - <https://www.same.org/Denver>
- ★ Pikes Peak - <https://www.same.org/Pikes-Peak>

As always, I am honored and delighted to be your Post President. Please don't hesitate to reach out to me or our Post Board if you have any questions or concerns. We are happy to support you!

Lindsey Roberts McKenzie, PE
2020-2021 SAME-MSP Post President
Email: lroberts@sehinc.com



WELCOME NEW MEMBERS!

The following individuals have joined the SAME-MSP Post this month – thank you for joining us and welcome to the Minneapolis-Saint Paul Post!

- ★ Brian Freeman, Leo A. Daly
- ★ Leif Eikevik, Leo A. Daly
- ★ Jeanne LeBron, Slate Architecture, Inc.
- ★ Joshua Hoyord, Leo A. Daly
- ★ James Sokolowski, Leo A. Daly
- ★ Peter Yakowicz, Leo A. Daly
- ★ Linn Bjornrud, Leo A. Daly
- ★ Rory Alsberg, J.F. Brennan Company, Inc.
- ★ Zach Lucas, J.F. Brennan Company, Inc.
- ★ Mark Binsfeld, J.F. Brennan Company, Inc.
- ★ Brady Wateland, J.F. Brennan Company, Inc.
- ★ Phil Moessner, Leo A. Daly
- ★ Ben Orton, ISE Solutions, LLC
- ★ Ashley Welker, Legacy Building Solutions



FEBRUARY MEETING SUMMARY

Sam Smith – U.S. Army Corps of Engineers

On February 17th, **John Murphy** presented on his research contributions to the Material Point Method (MPM). The Material Point Method is a numerical method being adapted to solve large deformation geotechnical problems. The presentation introduced MPM and described how it fits within the suite of numerical methods. John presented a visual comparison between Lagrangian Finite Element Methods and Material Point Methods. The FEM example showed mesh deformations while the MPM example showed nodes passing through mesh. John described the difference between single point and double point mass transfer. Water passing through coffee grounds and carrying fine particles with it was described as a simplified example of mass transfer. John concluded that MPM shows promise in modeling the suffusion internal erosion mechanism.



CENTENNIAL CELEBRATION UPDATE: SAME CONFERENCES

Chris Erickson – U.S. Army Corps of Engineers, St. Paul District

Partnering, networking, recognition, celebration, professional development, technical tracks, product demonstrations, Academy of Fellows, Society Ball, expo hall, golf and others are the events that sound common to the those who have participated in the SAME national or regional conferences. Planning, hard work, long hours, logistics, anticipation, and coordination to conduct these events are more than most would ever realize. Yet, this hard work does bring a positive financial benefit to the hosting organization. Over the years out Minneapolis St Paul Post has had the opportunity to such events, including:

- ★ The National Joint Engineers Training Conference & Expo (JETC) 2008 in Minneapolis, MN with an excess of 1,600 participants. Co-hosted by the Minneapolis–St Paul and Rock Island Posts, this conference featured five technical tracks, an expo area, technical tours, networking, and social events. This event generated approximately \$190,000 for the Minneapolis–St Paul Post. A recap of this event is attached to the newsletter.



- ★ The 2002 Great Lakes and Ohio Valley Regional Conference in St. Paul, MN. This event held at the St. Paul Hotel had more than 1,000 participants with multiple technical tracks, tours, and networking opportunities. This event generated approximately \$22,000 for the Minneapolis–St Paul Post.



- ★ In 1995 the Minneapolis–St Paul Post hosted a Regional Conference in Duluth, MN.

- ★ In 1984, a National SAME Conference was held in Minneapolis, MN.

Many of us have personally enjoyed these events. Yet, we all must appreciate the many persons who spent long hours, late nights, and lots of energy to make these happen. I would like to specifically thank the organizers, committee leaders and members, logisticians, volunteers, that made these events a success. Your efforts provided an excellent conference experience to those who attended but just as important your efforts are making a lasting impact for you have contributed to the financial success of the Minneapolis–St Paul Post. Scholarships, educational grants, community service projects, professional development, etc. are the things that continue to benefit from your hard work. **THANK YOU** to all of those before us who have faithfully served in our post history which have made these things a reality – your service is **APPRECIATED!**

JOB OPENINGS!

Looking for a new job or to switch things up? Consider joining the U.S. Army Corps of Engineers, St. Paul District! There are two engineering positions open on USAJobs.gov, but hurry, the positions close on March 17th and 18th!

These positions with the Engineering and Construction Division. The St. Paul District plans, designs, builds, and operates water resource projects to benefit the people of Minnesota, western Wisconsin, northeastern North Dakota, portions of South Dakota and Iowa, and the nation. We are responsible for supporting inland navigation, helping communities reduce damages caused by flooding, environmental restoration, and emergency response to disasters.

★ **GS-12 Hydraulic Engineer:**

For more information, please visit: <https://www.usajobs.gov/GetJob/ViewDetails/59412200>

★ **GS-11-12 Structural Engineer:**

For more information, please visit: <https://www.usajobs.gov/GetJob/ViewDetails/59393150>



2021 SAME EDUCATION GRANTS!

Chris Erickson – U.S. Army Corps of Engineers, St. Paul District



The 2021 Education Grant Application Forms are now available on the [STEM Outreach](#) 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.

Application documents may also be downloaded from the SAME website here:

- ★ [PDF Application](#)
- ★ [MS Word Application](#)

The deadline for submitting scholarship applications is **Friday, April 2nd, 2021**. For additional information or to request the application forms directly, please contact [Chris Erickson](#). To see previous winners and examples of the projects funded, a listing of historical grants is available on our [Grants for Educators](#) webpage here: https://www.same.org/Portals/0/DNNGalleryPro/uploads/2021/1/5/Summary_Awarded_Educational_Grants_2009-2020.pdf

SMALL BUSINESS CORNER

Sherry Van Duyn – Landmark Environmental

Mark your calendar for the 22nd Annual Small and Disadvantaged Business Opportunities Council (SADBOC) Government Procurement Fair for **Thursday, April 29, 2021**. This trade fair is intended to provide opportunities and assistance to small businesses interested in pursuing Government contracts. Like 2020, the 2021 conference will be a virtual conference. For more information on the upcoming conference and to see the slides from the 2020 conference, visit <https://minnesota.feb.gov/programs/small-business-opportunities/>



POST SCHOLARSHIP APPLICATIONS AVAILABLE

Erin Krug – U.S. Army Corps of Engineers, St. Paul District

The 2021 Scholarship Application Forms are now available on the [STEM Outreach](#) page of the web site, 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. The deadline for submitting scholarship applications is **Friday, April 2nd, 2021**.

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. 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/Post-Scholarships>

POST SCHOLARSHIP VOLUNTEERS NEEDED!

Erin Krug – U.S. Army Corps of Engineers, St. Paul District

The Post Scholarship Review Committee is looking for four new committee members starting in 2021. The Post Scholarship Review Committee members typically hold three-year terms and review scholarship applications in mid-April every year. The estimated annual commitment is between 5 and 20 hours depending on how applications are received. Contact Erin Krug at Erin.E.Krug@usace.army.mil or 651.290.5576 for more information on joining this fulfilling committee!



THANK YOU!

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

- ★ AECOM
- ★ Anderson Engineering of MN
- ★ Ayres Associates
- ★ Barr Engineering
- ★ Bergmann Associates
- ★ Burns & McDonnell
- ★ Cardno Inc.
- ★ CH2M Hill
- ★ Cushing Terrell
- ★ Eaton Corporation
- ★ EMR Inc.
- ★ Hammel Green and Abrahamson
- ★ Hanson Professional Services
- ★ HDR Engineering
- ★ HNTB Corporation
- ★ Jacobs
- ★ Landmark Environmental
- ★ Mortenson Construction
- ★ Parsons
- ★ Quantum Spatial
- ★ Rani Engineering
- ★ RSP Architects
- ★ SEH
- ★ Stanley Consultants
- ★ Stantec
- ★ Terracon
- ★ Weston Solutions
- ★ Wood Group

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 svanduynd@landmarkenv.com or Dave Ausdemore at dave@hsscience.com, if you would like more information on how to get involved!

