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Upcoming Meetings:

- Future City Competition, Jan. 19th
- SAME-MSP February Meeting and Presentation, Feb 27th
- SAME Rock Island Industry Day, Feb 28th
- SAME-MSP Joint Meeting with ASCE, Mar. 27th

Frequently Used Links:

- National website: www.same.org
- Post website: www.same-msp.org
- [Post Leadership](#)
- [Post Sustaining Members](#)
- [SAME-MSP Facebook Page](#)

Next Meeting Presentation

Wednesday, January 23rd, 2019

Models for Cranberry Bog Stream and Wetland Restoration

0.5 PDH

Jonathon Kusa, PE, LEED-AP, Inter-Fluve, Inc.

Presentation Synopsis:

The Eel River restoration project is the first example of active cranberry bog restoration in Massachusetts. Prior to restoration, the Eel River headwaters had been in cranberry culture for over 150 years. The stream was dammed and former sloped fens were converted to cranberry culture through the application of sand and management of dikes and water control structures. Design of the restoration project began in 2005 and construction was completed in July 2010. The Eel River project included restoration of 40 acres of Atlantic white cedar swamp and minerotrophic fen habitat, sphagnum moss restoration, fish and wildlife passage culvert replacements, removal of small dams, raptor perch habitat construction, 8,000 feet of new stream channel construction, over 1,000 pieces of large woody habitat, and stormwater detention and infiltration ponds. Habitat for salter Brook Trout, Bridle Shiner and Eastern Box Turtle, Massachusetts special concern species, were constructed.

The Tidmarsh Farms restoration site is a 400 acre retired cranberry bog. Plans are being completed for 250 acres of wetland restoration and 20,000 feet of stream channel restoration, including fish passage restoration for blueback herring, American eel and alewife. This project incorporates

(Presentation synopsis continued on Page 2)

Speaker Biography:

Jonathon Kusa is a professional engineer with over 20 years of experience. He is the Managing Principal of Inter-Fluve and provides leadership to 45 engineers, scientists and technicians across the country. His diverse experience in water resources engineering translates into unique solutions to surface water management challenges. Jonathon has a well-rounded technical background in erosion control, transportation, wastewater, site development, river restoration, and hydrologic and hydraulic modeling. Jonathon is a resident of Saint Paul, but is currently leading design and/or construction projects in Edina, Minneapolis, Sonoma County California, Toronto, and Baltimore.



Meeting Location and Details:

Grumpy's Bar and Grill: 2801 Snelling Ave, Roseville, MN

11:30 AM - 12:30 PM: Networking and optional lunch
12:30 PM - 1:30 PM: Technical presentation

Please **RSVP** by no later than **Wednesday, January 16, 2019** with your intent to either partake in the optional \$20 burger buffet or for the presentation only.

To RSVP please use the following Eventbrite link:
<https://www.eventbrite.com/e/january-professional-development-meeting-tickets-54315167127>

Invite a Friend to January's Luncheon!

Help promote the our SAME Post! Where else can engineering professionals network, listen to interesting technical presentations, and earn PDHs? Invite a friend to the January luncheon to show them what they are missing!

January Luncheon Presentation Synopsis (Continued from Page 1)

the Living Observatory, a collaboration among the project owners, Massachusetts Division of Ecological Restoration, MIT, various universities and project partners in which remote sensing techniques will be incorporated into visitor experience to both monitor ecological recovery and educate the public regarding cranberry bog restoration. As cranberry bogs are retired in the U.S., alternatives to traditional passive revegetation and restoration approaches are valuable. This talk examines the design and construction challenges faced in developing a repeatable template for large-scale cranberry bog stream and wetland restoration.



Aerial view of the Eel River project.

December Meeting Highlights

The consensus among scientists is that precipitation and temperature patterns are changing in Minnesota, and that changes are likely to continue in the future. These changes are already having an impact on our natural environment and our infrastructure. In December, Leslie Yetka from the Freshwater Society joined us to talk about these changes and how her organization works with communities and organizations to help them plan for the future. One important means for the Fresh Water Society to work with communities and organizations is through holding participatory planning workshops. Through this engagement, Leslie helps people understand the unique needs and risks facing their communities and helps them develop plans for the future. This planning includes evaluating climate related hazards, vulnerabilities, strengths, and community actions related to systems at risk such as natural resources, water infrastructure, transportation and power systems, and emergency response systems. By acknowledging change and thoughtfully planning for the future, communities can better position themselves to be resilient in the face of a changing future.



Leslie Yetka (Freshwater Society) presenting on community adaptation to climate change at the December's SAME Post meeting.

U.S. Army Corps of Engineers Rock Island District Industry Day

Rock Island SAME Post and U.S. Army Corps of Engineers Rock Island District are hosting their first Industry Day on February 28th in Davenport, Iowa from 8am to 4pm. The event will be a mix of educational opportunities, including networking with government personnel and other contractors, as well as learning how to increase business with the Rock Island District. There will also be an opportunity to connect with District technical experts and learn more about their programs, contracting, small business office and senior leadership.

In addition, attendees will have the opportunity to sign up at the SAME Installation dinner on February 27th or at registration on February 28th for small group roundtable sessions with the technical/program offices of their district. These 20 minute small group sessions are limited to representatives from five companies on a first-come first-served basis. Representatives will be able to have a direct conversation with the PM, lead engineer, or operations manager and share your company's capabilities and ideas. More information on these sessions are at the event website, including descriptions of Government Roundtable hosts, and will be updated as more information is available.



Please contact Beth White at Elizabeth.M.White@usace.army.mil with questions or if interested on becoming an exhibitor or sponsor. Register at <https://www.same.org/Get-Connected/Find-a-Post/Rock-Island>

SAME-MSP Post 2019 Scholarship Announcement

The 2019 Scholarship Application Forms are now available on the [Grants & Scholarships](#) tab of the SAME-MSP website, as well as via the links below. If you know someone who is deserving of a scholarship, please urge the young person to apply for one of the Post's scholarships. The SAME Minneapolis-Saint Paul Post will be granting three scholarships:

- two (2) one-time \$1,500.00 scholarships
- one (1) \$1,500.00 multi-year scholarship (\$6,000.00 max)

The deadline for submitting scholarship applications is Friday, April 5th, 2019.

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 will evaluate 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: <http://same-msp.org/grants-and-scholarships/>

SAME-MSP 2019 Education Grants

The SAME-MSP Chapter is offering educational grants for up to \$3,000.00 for elementary and secondary schools for the upcoming 2019-2020 school year for schools within a 100-mile radius of Saint Paul, Minnesota. One fundamental goal of SAME is *"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 Chapter is requesting applications from schools and classroom teachers who are committed to supporting the math and sciences that support future engineering-related career opportunities. We are encouraging all grade levels to participate.

Applications for these grants will be reviewed on the following criteria:

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

The application form will soon be posted on the SAME website and will be due in early April 2019. Please watch the website for updated information. Elementary and secondary teachers / schools that are promoting the math and sciences within the 100-mile radius are encouraged to apply. For a listing of the historical grants awarded, please go to <http://same-msp.org/grants-and-scholarships/>

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Society of
SAME
American Military Engineers
Minneapolis-Saint Paul Post

SAME-MSP Post Membership Survey

Post Membership Survey is Live! Tell us how our post is doing and what we can do better.



This survey will assist to identify gaps and opportunities for our Post programs and activities. Our goal is to ensure that our Post benefits our members with technical programs and networking opportunities, and continually strives to provide these values and opportunities to our members. The survey was emailed to all Post members in November and can also be accessed here:

<https://goo.gl/forms/1fesCSRgsay2LRGj2>

This link may not be accessible to those using government computers. If this is the case, please complete the survey using the attached pdf and email the survey directly to Dave Ausdemore at dave@hsscience.com.

A Look into the Future: Volunteers Needed for Future City Competition

This will be the 17th year that teams from Minnesota have participated in the national [Future Cities Competition](#) and will be the 11th year that the SAME-MSP 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 Post needs the assistance of at least four volunteers on the morning of **Saturday, January 19, 2019 at Dakota County Technical College** to help select the team to receive our special award.



This year's competition theme is **Powering Our Future** - teams will design a resilient power grid for their future city that can withstand and quickly recover from the impacts of a natural disaster. This theme fits well with our special award, so there should be some very creative and well thought out ideas. If you are interested in volunteering, please contact Peter Allen at peter.allen@stantec.com or 651-604-4801.

Habitat For Humanity Volunteer Opportunity



The Habitat for Humanity service project is happening in February or March! This is a great opportunity for team building and contributing to this great program. Start talking to your co-workers and let's build a great team for H4H! Keep watching the newsletter for more details

or contact Rebekah Hudson at rebekah.hudson@jedunn.com to sign up now!

Sustaining Member Presentations at Future SAME-MSP Post Meetings

The SAME MSP Post is looking for our sustaining members to give a brief five minute presentation about your company prior to the monthly presentations. This is a great networking opportunity to tell others about your company's services, small business information, etc. Please email Sherry Van Duyn at svanduy@landmarkenv.com or Dave Ausdemore at dave@hsscience.com if you would like to present.

Have an idea for future meeting topics or tours?

Please contact Matt Redington with your ideas at matthew.redington@hdrinc.com or 763-591-5487!