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OCTOBER VIRTUAL MEETING: 10.20.2022

New Rules for Floodplain Mapping with FEMA Risk Rating 2.0 1.0 PDH

FEMA's flood insurance rating system of 40 years has been revamped with big changes! A new program called Risk Rating 2.0 has been rolling out the past year. This presentation will highlight some of the changes with the new system. What do we know about the factors FEMA is using for rating policies? How can Water managers support the communities and citizens they work with? There are some positive new aspects of the program, but – as with many new systems – some aspects could use some tweaks. Ceil will share her insight on the ins and outs in the new Flood Risk rating system and where you can find more details!

Presenter Biography

Ceil Strauss is the Minnesota State Floodplain Manager. Ceil has been in the Floodplain Program at Minnesota DNR since 2002, and worked with the Minnesota DNR an additional 14 years, mainly as an Area Hydrologist in the western Twin Cities area. She is past Chair of the national Association of State Floodplain Managers (ASFPM).



Details: Thursday, October 20, 2022, at 12:00pm-1:00pm CST

Cost: \$0

Location: VIRTUAL MEETING LINK: <https://usace1.webex.com/meet/erin.e.krug>

NOVEMBER-DECEMBER MEETINGS

Mark your Calendars – you won't want to miss these events! The November and December Post meetings will be Part 1 and Part 2 leadership webinars, that combine the regular SAME monthly meeting with the monthly leadership events.

Part 1: November 9th 12:00-13:00 Central.

Leadership Speaker, Colonel Eric Swenson, Commander of the St Paul District, USACE

Part 2: December 14th 12:00-13:00 Central.

Leadership Speaker, Major General Diana Holland, Commander of Mississippi Valley Division, USACE

We can't be more excited to hear reflections on their leadership journeys!

SEPTEMBER MEETING SUMMARY

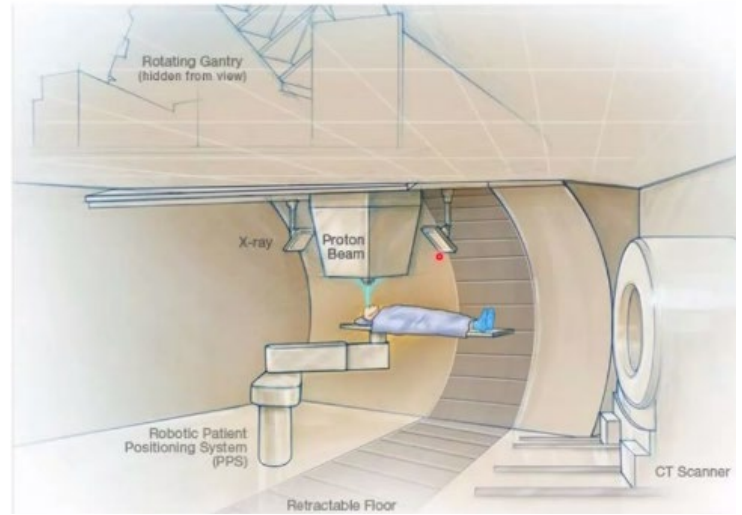
The September post meeting included a presentation on Proton Therapy Systems from Mike Rahn, Deputy Site Service Manager for Hitachi Particle Engineering Systems Proton Facility at Mayo Rochester. The presentation included a background of proton therapy, the different uses and construction of proton accelerators, imaging that enables more accurate therapy, robotics involved, and Mr. (continued on next page)

SEPTEMBER MEETING SUMMARY (CONTINUED)

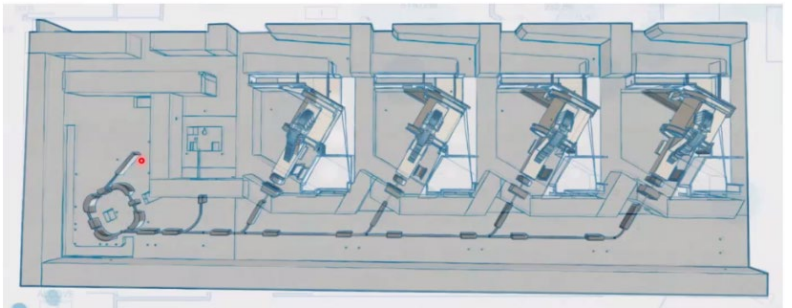
Rahn's perspective on service management and challenges. There are 67 facilities worldwide that utilize this technology for targeted cancer radiation therapy. This treatment is proven to be very effective, more so than photon therapy. The process entails excitation of hydrogen atoms which separates the protons from electrons, then the protons are accelerated to 60% Speed of Light (440,000 miles in 4 seconds) and focused down pipes directed by magnets and under vacuum to the treatment room. Walls of the facility are 6 to 7 ft thick, not because the proton can penetrate that concrete, but collisions could create neutrons which are notoriously difficult to stop. Mr. Rahn also discussed the on-going construction of an additional proton therapy site at the Mayo Rochester. Thank you Mr. Rahn for this unique technical presentation!



Half Gantry Treatment Room - Imaging



Facility Layout - Rochester



TWIN CITIES HABITAT FOR HUMANITY EVENT

The Twin Cities Habitat for Humanity volunteer build day occurred just last week, October 3rd, in Minnetonka, MN! There were 6 volunteers in attendance, including SAME member Eric Henery, and a good amount of work was completed. One team finished framing out a window and door to the garage space and sheathing the exterior of the garage. The other team filled in an 8' section of wall at the interior of the garage and



installed top plates along all of the exterior walls, plumbed and then top plated



the interior walls with material available at the time. Tony, the site supervisor, was finishing up later in the week, accepting delivery of the roof trusses to be installed by additional crews that were lined up. They hope to get the exterior structure buttoned up before the weather turns more winter-like. A big thank you to the SAME MSP and other volunteers for making this project a success!

PRESIDENTS NOTE

Greetings MSP Post! October is a special time because Fall is here! I make sure I get outside to enjoy the colorful leaves and pick some apples.



Thank you to those of you who were able to attend our September meeting. We were able to host Mike Rahn who gave a fascinating presentation about Proton Therapy. Our upcoming meeting is scheduled for Thursday,



Oct 20th, and it will be a presentation about New Rules for Floodplain Mapping with FEMA Risk Rating 2.0. We are fortunate enough to have Ceil Strauss join us who is the State Floodplain (NFIP) Manager, Ecological and Water Resources Division at the Minnesota Department of Natural Resources.

As always, we are looking for volunteers to assist in a number of leadership positions – Awards Chair, Events Chair, and Membership and Small Business Chair. Volunteering with the Post is a great opportunity to challenge yourself, grow in your leadership, and make connections with our wonderful members.

Get outside and enjoy the Fall colors!

Erin Krug, P.E.
2022-2023 SAME-MSP Post President
erin.e.krug@usace.army.mil

LEADERSHIP PROGRAMMING

MSP Post Events: One of the goals for SAME is to grow leaders for the nation. The MSP Post is supporting this national goal by hosting a series of leadership events through an MSP Post leadership book/video club. Each session is separable, and attendees do not have to worry if they miss one session. The Post welcomes any senior leaders to volunteer to facilitate a session on a book or video that meets their leadership passion. Any volunteers should contact Ann Banitt (ann.m.banitt@usace.army.mil) and we will work with your ideas for the upcoming leadership event!

October Event: Wednesday Oct 12th, 12-1PM

Webex Link: <https://usace1.webex.com/meet/ann.m.banitt>

Featured Facilitator: Joe Waln, PE, CFM, Barr Engineering Vice President / Senior Water Resources Engineer.

Topic: Why great leaders take humor seriously.

There's a mistaken belief in today's working world that leaders need to be serious all the time to be taken seriously. The research tells a different story. Based on the course they teach at Stanford's Graduate School of Business, behavioral scientist Jennifer Aaker and corporate strategist Naomi Bagdonas delve into the surprising power of humor: why it's a secret weapon to build bonds, power, creativity and resilience -- and how we can all have more of it.

Logistics:

- 1) Please review the following TED talk before Wednesday's Leadership Event.
[Why great leaders take humor seriously](#)
- 2) Attendees are encouraged to bring a story to share about how they or someone else effectively used humor in a work setting.

National Events: More leadership programming at the national level is offered as part of the **Leader Development Community of Interest (LD COI)**. The mission of the LD COI is to develop, execute, and track leader development activities across SAME enterprise in support of the 2025 SAME Strategic Plan: Securing America's Future, Together. Learn more about this community and find details on upcoming events (listed below) at [the LD COI website](#). Sign in to your SAME account for access.

Oct. 13, 2022	Bio-Electro-Chemical Technologies for Sustainable Remediation of Contaminants, and Micron-Scale Carbon Injections Used to Remediate Residual Hydrocarbons
Oct. 17, 2022	SAME Wants You! SAME National Leadership Opportunities
Oct. 18, 2022	Fate, Transport, and In Situ Treatment of PFAS
Nov. 17, 2022	Engineering With Nature and the U.S. Army Corps of Engineers

OPPORTUNITIES

SAME Post Scholarship Mentors: This year, we are working to setup sponsoring/mentoring of scholarship recipients throughout their college careers. Please contact Coralys Nunez-Orta (coralys.n.nunez-orta@usace.amy.mil) if interested in serving as a sponsor/mentor.

Note that the next round of Scholarship applicants will be coming in April 2023! If you know someone in High School that will be attending college to study STEM, let them know about this great scholarship opportunity.

Minnesota Military Family Foundation: The [Minnesota Military Family Foundation \(MMFF\)](#) recognizes the sacrifices military families make by softening the financial hardships that occur when a family member is deployed or otherwise serving our country. The MMFF provides a financial safety net. The MMFF is an all-volunteer board with zero overhead. To read testimonials from retired military personnel and families, click [here](#).

Minneapolis Saint Paul Post Educational Grants: The SAME MSP Post offers educational grants for up to \$3,000 for elementary and secondary schools each spring for the following 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 Minneapolis - St Paul Chapter of SAME looks for applications from schools and classroom teachers who are committed in supporting the math and sciences that support future engineering-related career opportunities. Applications for the 2023-2024 school year will be accepted and reviewed in spring 2023.



The St. Paul District has openings in many different disciplines. Check them all out on USAJobs,; <http://ow.ly/vpir50KYazm>

SAME NATIONAL AT A GLANCE

Apply for SAME National Leadership Development Program

The application process for SAME's fifth Leader Development Program class will open Oct. 1 and close the first week of December. Applications must be submitted electronically through a Post President. The class will be announced in February 2023. Developed through support from the SAME Foundation, the Leader Development Program seeks to cultivate talent from within the membership to help support the development of the next generation of military, government, and industry leaders for our country, our profession, and our Society. Learn more about the program [on the website](#).

Federal Small Business Conference (SBC)

SAME's 2022 Federal Small Business Conference (SBC) is headed to Nashville, TN, November 2-4, 2022. This is your opportunity to connect with a community of leading experts, decision-makers, solution providers, business partners, and federal contracting officers. See the next page for more.

SAME National Officers and Elected Directors

Nominations are open as of Oct. 6 through Dec. 1 for SAME National Officers and Elected Directors. The society is looking for national leaders who will serve our Society by inspiring action today and who will inspire others to become national leaders tomorrow. Please [read the guidance](#) from our President, Cindy Lincicome and check out additional information [on the SAME national website](#) that highlights the roles and responsibilities of President-Elect, Vice President, and Elected Director.

2022 YP/Fellows Challenge

Starting Oct. 15, the SAME Foundation will kick off its most exciting fundraising campaign yet: the Young Professionals/Fellows Challenge! Watch for an envelope in the mail from the SAME Foundation in the coming weeks detailing how you can donate and watch your email as well in October for updates on the YP/Fellows Challenge and \$5K Matchers! For more information, visit www.same.org/foundation.

MARK YOUR CALENDARS

Federal Small Business Conference (SBC)

SAME's 2022 Federal Small Business Conference (SBC) is headed to Music City Center in Nashville, TN, November 2-4, 2022. SBC is for the Federal Architecture, Engineering, Construction and Facility Maintenance/Management Industry and brings together federal agencies and businesses operating in the federal marketplace to:

- ★ Deliver the most comprehensive and useful market research experience possible for all attendees
- ★ Learn of and/or share upcoming contracting opportunities for small businesses
- ★ Connect with teaming partners
- ★ Support the nation's contracting goals
- ★ Engage in above-board networking between private companies and federal program managers and procurement/contracting officers.

More than a dozen federal agencies have participated in SBC over the last few years, including the U.S. Army Corps of Engineers; Naval Facilities Engineering Command; Air Force Civil Engineer Center; Department of Veterans Affairs; Veterans Health Administration; Department of Energy; General Services Administration; Department of State; Small Business Administration; Environmental Protection Agency; Federal Emergency Management Agency; and National Aeronautics & Space Administration. This is your opportunity to connect with a community of leading experts, decision-makers, solution providers, business partners, and federal contracting officers. See the website for more information www.samesbc.org and [register here](#).

SBC Highlights Include:

- ★ Business Opportunity Sessions Presented by Government Agencies
- ★ One-on-One Networking Appointments between Small Businesses and Government Agencies and Large Business
- ★ Keynote Speakers and Dynamic General Sessions
- ★ Education and Training Featuring Over 40 Sessions
- ★ Exhibits Featuring Leading A/E/C Companies
- ★ Industry-Government Engagement Sessions

Reminder: Each year at the Federal Small Business Conference, SAME presents its annual Small Business Awards for excellence in support of federal/military small business programs. Honorees will be recognized on Nov. 3, during the Wednesday General Session of SBC.

Date: Wednesday-Friday, November 2-4, 2022

Time: 7:30 AM to 5:30 PM daily

Location: [Nashville's Music City Center](#)

201 Rep. John Lewis Way South
Nashville, TN 37203, US

SAME Nashville Post – Scholarship Golf Scramble

Date: Tuesday, November 1, 2022

Time: 6:30 AM to 4:00 PM

Location: Hermitage Golf Course

3939 Old Hickory Blvd
Old Hickory, TN 37138, US

This scholarship golf scramble will take place the Tuesday before SBC. Find out more [here!](#)

Minnesota Water Resources Conference

Dates: October 18–19, 2022

Location: [Saint Paul RiverCentre](#)

- ★ Immerse yourself in innovative, practical, and applied water resource engineering solutions, management techniques, and current research about Minnesota's water resources.



Minnesota Power Systems Conference

Dates: November 8–10, 2022

Location: [Saint Paul RiverCentre](#)

- ★ Stay abreast of today's power system technology in this three-day conference that emphasizes the unique challenges faced by electric utilities in the Midwest.



MARK YOUR CALENDARS (CONTINUED)

Conference on the Environment

Date: November 10, 2022

Location: TBD

- ★ This all-day conference brings together environmental professionals representing industry, consultants, government, and academia, in the areas of air quality, water quality, and waste management. Through keynote presentations and concurrent technical sessions, attendees will learn about new, relevant issues. The COE is co-hosted by the Upper Midwest Section of Air & Waste Management Association (A&WMA-UMS) and the Central States Water Environment Association (CSWEA). Check back at the website linked above for upcoming details.



AIR & WASTE MANAGEMENT
ASSOCIATION

UPPER MIDWEST SECTION

Annual Concrete Conference

Date: December 8, 2022

Location: [Heritage Center](#)

- ★ Take advantage of networking and knowledge-sharing opportunities for practicing engineers, engineering faculty, consultants, contractors, concrete contractors, and state and county agency employees.



UNIVERSITY OF MINNESOTA
Driven to Discover™

Annual Institute for Building Officials

Dates: January 18–February 2, 2023

Location: [Heritage Center](#)

- ★ Continue your education and get up-to-date information on Minnesota code rules and amendments, best practices for inspection and code administration, innovative products on the market, and useful professional development skills.



UNIVERSITY OF MINNESOTA
Driven to Discover™

Structural Engineering Seminar Series

Dates: January 31–March 7, 2023

Location: TBD

- ★ **Credits:** 0.3 CEUs per session
- ★ Get up-to-date information on structural engineering topics, enhance your skills, and take advantage of networking opportunities.



UNIVERSITY OF MINNESOTA
Driven to Discover™

OPEN COMMITTEE AND LIAISON OPPORTUNITIES!

The post is still looking for interested persons for these great opportunities to become more involved in a professional organization! The following are the open committee and liaison leadership roles that can be filled immediately:

Additionally, the following are the open committee and liaison leadership roles:

- Awards Committee Chair
- Programs Chair
- Membership and Small Business Chair

You can find a list of our current committee and liaison roles on our website at [Committees \(same.org\)](#). Feel free to reach out to the person listed as currently holding that position if you have any questions about the role (email hyperlinks are included on the website). If you are interested in being part of the MSP Post leadership team, please reach out to Erin Krug at president@samemsp.org or to Sam Smith at vp@samemsp.org. Please consider volunteering and get more involved with our active Post!



THANK YOU!

Thank you to all our Sustaining Firms—we appreciate your support and want to make sure all our members are aware of it, too!

- ★ AECOM
- ★ Anderson Engineering of MN
- ★ Ayres Associates
- ★ Benham Design, LLC
- ★ Bergmann Associates
- ★ Burns & McDonnell
- ★ Cardno Inc.
- ★ CDG Engineers, Inc.
- ★ Cushing Terrell
- ★ Damon Farber Assoc.
- ★ DLR Group, Inc.
- ★ Greenstone Construction Inc.
- ★ Hammel Green and Abrahamson
- ★ Hanson Professional Services
- ★ HDR
- ★ Houston Engineering, Inc.
- ★ HR Green, Inc.
- ★ J.F. Brennan Company, Inc.
- ★ Kaiyuh Services, LLC
- ★ Landmark Environmental
- ★ Leo A. Daly
- ★ LS Black Constructors
- ★ Mortenson Construction
- ★ RSP Architects
- ★ SEH
- ★ Siemens Industries, Inc.
- ★ Stanley Consultants
- ★ Stantec
- ★ Terracon Consultants
- ★ Ulteig
- ★ Vann Companies
- ★ Wood

Did you know that as part of your sustaining membership we encourage you to talk about yourselves to our members? Please email Dave Ausdemore at dave@hsscience.com, if you would like more information on how to get involved!

