Next Meeting Presentation
Wednesday, May 23rd, 2018

Grafton, North Dakota Flood Mitigation Project

Tom MacDonald, PE, Barr Engineering & Cory Anderson, PE, Barr Engineering

Speaker Bio:

Tom is Vice President and Senior Water Resources Engineer at Barr Engineering. He has a Masters in Civil Engineering from the University of MN. In his 25 years at Barr, Tom has worked on a broad range of hydrology- and hydraulics-related projects for public and private sector clients. His work focuses on river hydraulics; stream restoration; and surface water management. Tom has performed feasibility studies and preliminary and final designs for stabilization and has extensive experience in the restoration of streams, rivers, and ravines.

Cory is a water resources engineer at Barr Engineering with nine years of experience. He has a Masters Water Resources Engineering from University of Wisconsin-Madison. He specializes in hydrologic and hydraulic modelling, probabilistic environmental modelling, and risk and uncertainty analysis. His project work has included 1D and 2D unsteady hydraulic modelling of rivers and flood control projects, flood plain mapping in rural and urban settings, design of hydraulic structures including overflow, gated, and aqueduct structures. He is a leader at Barr in hydraulic risk as it relates to flooding from infrequent storm events and breaches of hydraulic structures.

Presentation Synopsis:

The City of Grafton has historically experienced major flooding, with approximately 90 percent of city within the regulatory floodplain and the existing flood protection system not meeting FEMA standards. Barr has been part of a team to evaluate the feasibility of alternatives and develop plans, specifications, and permit applications for the flood risk management project consisting of a 2.9-mile high-flow diversion channel and 8.5 miles of levees. As part of this work, Barr performed 2-dimensional modeling (using HEC-RAS) of the diversion inlet and outlet areas to better understand the erosive forces in those areas. We incorporated overbank grading on the Park River upstream of the diversion channel inlet in order to offset the effects of the proposed levee and reduce flow velocities in this reach to acceptable levels. The 2-D modeling and design changes resulted in significant reductions in the volume of riprap armoring required to protect the riverbanks and inlet and outlet structures. The modeling was also used to demonstrate to agencies that flow conditions were suitable for fish passage.

Meeting Location:

LOCATION: Barr Engineering, 4300 MarketPointe Drive, Minneapolis, MN 55435
Free parking is available in the adjacent parking lot, west of the building.

Agenda:

Social time and lunch (if you so desire) will be available from 11:30 AM to 12:30 PM with presentation from 12:30 PM to 1:30 PM.
A lunch at a cost of $15 will be available. Lunch will consist of a buffet and a beverage. Please RSVP no later than Friday, May 18th, 2018, with your intent to either partake in the lunch or to come for the presentation only. Please click the RSVP button in the left-hand column of page 1 or use the following Eventbrite link to RSVP: https://www.eventbrite.com/e/may-professional-development-meeting-joint-meeting-with-mnafpm-tickets-45721456106

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!
Highlights of the April Meeting

Alex Nelson presented on a project that evaluated sediment transport and dredging strategies in the Mississippi River. With the closure of the Upper St. Anthony Falls (USAF) lock in 2015, it is no longer necessary to dredge a navigational channel upstream of this lock. Elimination of channel maintenance in the upper navigation pools of the Mississippi River near Minneapolis and St. Paul, Minnesota will result in changes to sediment transport downstream and changes to downstream river dredging needs. Alex developed an HEC-RAS model to represent the reach from above the Upper St. Anthony Falls lock to Lake Pepin. The model was used to evaluate how sediment settles in upper river reaches or passes into downstream pools or into Lake Pepin. It is anticipated that implementation of new strategies for dredging will result in a new stabilized condition within a decade. Modeling was validated and can serve as the basis for further evaluation in Lake Pepin.

Call for Officers and Board of Directors Nominations

Interested in getting more involved or want to nominate a deserving candidate?

The Minneapolis-St. Paul SAME Post’s new year starts in July and we are looking for nominations for positions on our Board of Directors. If you have suggestions for nominations or are interested and would like more information, please contact Paul Dierking, Minneapolis-St. Paul Post Vice President (paul.dierking@hdrinc.com or 763-591-5473) by June 1st. Thanks for helping identify our Post’s next round of leaders!

SAME-MSP Newsletter Needs Your Help!

We are looking for an interim newsletter editor for September 2018 through December 2018. If you are interested in helping compile information and put together the newsletter, please contact Rebekah Hudson at Rebekah.hudson@jedunn.com. We use Microsoft Publisher to publish our newsletter, and Rebekah can easily train you via Skype if you are not familiar with the software. We hope to have the position filled by June 2018.

Regional Vice President News & Feedback Requested

1. The Minneapolis-St. Paul SAME Post was awarded the Relationships Streamer, the Professional Development and Person Growth Streamer, and the Membership Streamer. Thanks to everyone to help us with these accomplishments!

2. Do you plan to attend the 2018 JETC Conference May 23rd through May 25th in Kansas City, MO? If so, please let our Regional Vice President, Thomas Heinold know by e-mailing him at Thomas.D.Heinold@usace.army.mil

3. SAME is gearing up to celebrate our centennial in 2020! As a member of SAME, what do you think we could do to make 2020 a great year for SAME and for the Post? Please send your ideas and requests for support to our Regional Vice President, Thomas Heinold at Thomas.D.Heinold@usace.army.mil

2020 SAME Strategic Plan
Towards Our Centennial

Small Business Corner

Another successful small business conference with up-to-date lectures, networking, and matchmaking was held on April 26th. Several great lectures including “Understanding Subcontractor Flowdown Clauses”, “2018 Legal Update with a Focus on Ownership & Control Issues”, “Federal Certifications Requirements for Small Businesses” and a “Local Government Agency Panel” to name a few.

TIP: Look for new ways to get work through government by working on small projects under contract bidding thresholds.
Sustaining Member Presentations at Future SAME-MSP Post Meetings

The SAME MSP Post is looking for our sustaining members to give a brief 5 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. We currently have openings, see schedule below. Please email Sherry Van Duyn at svanduyn@landmarkenv.com or Dave Ausdemore at dave@hssciences.com with which month you would like to present.

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Register Now for the 2nd Annual MSP Post Industry Day & 33rd Annual Golf Tournament

**When:** Friday, July 20, 2018  
**Where:** Oak Marsh Golf Course in Oakdale, MN  
**Schedule:** Industry Day in the morning, followed by lunch, golfing in the afternoon, and awards/dinner after golf  
**Why:** Earn PDHs, Network, and Have Fun! More info provided on the attached event flyer.
Register Now for the SAME Industry Day & Golf Tournament!
Friday, July 20, 2018 at Oak Marsh Golf Course in Oakdale, MN

Industry Day Event
8 AM to 11:30 AM

33rd Annual Golf Tournament
Shotgun Start at 1 PM

PDHs Available
Speakers wanted for the following topics:
Climate Change & Impacts
Infrastructure
Innovation & Technology
Leadership, Team Building & Communication
Legislative Updates
Resilience
Water Resources

Several Sponsorship Opportunities
Scramble Format
Prizes for 1st & 2nd Place Teams
Individual Awards for Longest Drive, Longest Putt & Closest to the Pin!
Additional Fun Activities on Every Hole and Great Prizes!

$10,000 Prize for Hole-In-One!

Interested in Presenting? Please Contact:
Nathan Meisgeier (651-290-5656) or
Sherry VanDuyn (952-666-2420)

Sponsorship Opportunities Available
Contact for Additional Event Info:
Chris Afdahl at 651-290-5712 or
by email at Christine.a.afdahl@usace.army.mil

Contact for Additional Info:
Rachel Pichelmann at 651-724-8245 or
by email at rpichelmann@sehinc.com

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Registration Information and Additional Details Provided on Next Page
Register Online before the July 13 Deadline!
http://www.wpgolf.com/oakmarsh/same_fundraiser.aspx
Early registration by June 30 will qualify you for a special drawing!

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<th>Sponsorship Opportunities</th>
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| **Industry Day Sponsor** - $500 Donation  
Company recognized during event | **Industry Day** - $40*/$30†  
Includes morning refreshments, technical presentations (3 PDHs), and box lunch |
| **Golf Tournament Hole Sponsor**  
$200 Donation for Small Business;  
$400 Donation for Others  
Company name/logo displayed at tee box, indicating sponsorship of hole. | **Golf Tournament** - $120*/$90†  
Includes golf, ½ cart, box lunch, dinner, and one drink ticket |
| **Golf Tournament Hole-In-One Event Sponsor** - $750 Donation  
Company name/logo displayed at tee box, indicating sponsorship of one of the hole-in-one $10,000 contests | **All Day** - $140*/$110†  
Includes Industry Day & Golf Tournament |

For all sponsorship options, your company will be listed as one of the tournament sponsors and will receive special acknowledgement at the awards presentation.

**Sign up to sponsor this event using the registration link above.**

**Oak Marsh Golf Course**  
526 Inwood Avenue N.  
Oakdale, MN 55128

*Price listed applies to SAME sustaining members and employees of private firms.  
†Price applies to employees of public agencies, SAME young members, and fully retired SAME members.

SAME Student Members contact Rachel Pichelmann (651-724-8245) if you are interested in participating.

Door prize donations are appreciated!

**Check Out the M-SP Post of SAME at same-msp.org**