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A Unique Cleanup Spurs Redevelopment of Blighted Beach
South Shore Lake Bemidji Remediation and Restoration

Sherry Van Duyn, PE, CHMM President, Landmark Environmental LLC
Benjamin Hodapp, PWS Environmental Services Manager, Anderson Engineering of Minnesota, LLC

1 PDH

Speaker Bio:
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Presentation Synopsis:
A collaborative process, involving public and private organizations, spurred a creative environmental cleanup of a blighted beach on Lake Bemidji. Piles of wood debris in the lake and on the beach, remnants of Bemidji’s rugged sawmill and lumber industry, were cleaned up for public use and ecological restoration.

The project discusses the difficulties and challenges a northern Minnesota city had with redevelopment of a contaminated and blighted lake shore property and some of the key elements to planning and implementing a successful redevelopment. The project included a unique environmental design that included construction of a 5.5 acre cofferdam and dewatering to remove and recycle wood debris from the lake and along the shoreline. The project also included removal of contaminated soil and sediment and ecological restoration. Significant permits were required for working in the lake and shoreline and a collaborative approach was successful. The project was funded by the Outdoor Heritage Fund.

Meeting Location:
LOCATION CHANGE: HDR Office, 701 Xenia Av. South, 6th Floor, Minneapolis, MN . Visitors are welcome to use adjacent surface parking or 2-level parking ramp adjacent to building (NE of Xenia Ave. and Golden Hills Drive) and come directly to 6th floor.

Agenda:
Social time and lunch (if you so desire) will be from 11:30 AM to 12:30 PM. A boxed lunch from D’amico & Sons will be available for $10. Presentation will be from 12:30 PM to about 1:30 PM.

Please RSVP no later than Friday, June 17th, with your intent to either partake in the lunch or to come for the presentation only; this will help to ensure that an adequate amount of food is prepared. Either leave a message with Rebekah Hudson at 952-833-5911, click the RSVP button in the left-hand column of page 1, or send an email to rebekah.hudson@jedunn.com
The May meeting for the MSP Post of SAME was a joint meeting with the Association of State Floodplain Managers. A big shout-out of thanks to Barr Engineering, who hosted the event. The technical portion of the monthly meeting was provided by Eric Waage, Directory of Hennepin County Emergency Management and Carrie Jennings, Freshwater Society. Together, Eric and Carrie provided the attendees with information on the risk associated with landslides or mass wasting of bluffs, and cited several disasters in the State of Minnesota. Through a coalition of the University of Minnesota, National Weather Service, MN DNR, Homeland Security and Emergency Management, and FEMA, efforts have been taken to document the history of landslides in the Metropolitan Area. By understanding the long term threats in the Twin Cities, zoning and mitigation for counties with these dangers can be addressed, with an objective to ultimately save lives. A network of soil moisture and temp probes is being installed within the Twin Cities at different depths in the ground to help identify critical combinations of parameters that trigger bank collapse.

Carrie described an amazing research project undertaken by students that has helped to uncover a history of bank collapses. Newspapers dating back to the 1870’s were used to identify and locate landslides to populate a database. Lidar was used to analyze the pre and post failures cross sections and slopes that are more susceptible to failures. Carrie described several mechanisms of bank collapses and included pictures. In additional to locating the bank collapse, precipitation records have been collected to review or reconstruct the events that may have been tied to the bank collapses. The occurrence of more intense rainfalls have been noted by the National Weather services. More frequent intense rainfall events may activate more bank failures in the future, and the awareness of areas that are more susceptible to bank failures is a must. FEMA consultants are preparing brochures for BPS and sample ordinances. Storm water policies should be reviewed in light of the natural tendency to unravel and move towards an equilibrium in response to the creation of the Glacial River Warren that down-cut across the Minnesota River Valley.

The research and collaboration between the various agencies have helped to raise awareness of the history of bank failures and will help to promote the sharing of this knowledge to make more informed decisions on land use and land management into the future. We thank Erick and Carrie for their informative presentation!

A Note From the President

Readers,

Coming off the heels of the SAME JETC in Phoenix, I am excited for what comes next for our Post and SAME. At JETC, Capt. Mark Kelly USN (ret) gave an inspiring keynote that highlighted his experiences both professionally as an astronaut and personally through his wife’s struggles. Another keynote speaker, Dan McNichol, talked about his experiences traveling the country raising awareness about the need to rebuild the Nation’s deteriorated infrastructure. SAME did some amazing things this past year and you can review their presentation on the SAME website (to be uploaded at a later date). The JETC education session material is located here: [http://s3.goeshow.com/same/jetc/2016/conference_sessions.cfm](http://s3.goeshow.com/same/jetc/2016/conference_sessions.cfm)

During the closing session, a panel of service chief’s provided insight into their programs and what to expect going forward. The main takeaway is that the DoD sees tremendous value in nurturing the collaborative spirit between public and private institutions. Thank you for your service to the Post and for reading this newsletter. Please reach out to any Board member with any feedback regarding any program we support and get involved. Enjoy the summer!

-Jon Gustafson, Post President
2016 SAME Scholarship Recipients

The Minneapolis-St. Paul SAME Post Scholarship Committee is proud to announce the 2016 scholarship recipients. This year the post is awarding two Category I (one-time - $1,500 each) scholarships and one Category II (4-yr recurring - $6,000 total) scholarship. Congratulations to these very deserving students!

**Category I (1 time - $1,500 each)**

**Justin Eayrs** – Justin attended Hill-Murray High School in Maplewood, MN and is entering his senior year at the University of St. Thomas where he is majoring in Mechanical Engineering. He has been an active member of the University of St. Thomas SAME Student Chapter, serving as president in 2014-15 and was nominated for the 2016 SAME National Student Leadership Award. In addition to other student organization and volunteer activities, Justin has served as a student mentor in the UST Engineering Department and completed an engineering internship last summer.

**Grace Pelowitz** – Grace recently graduated from St. Louis Park High School in St. Louis Park, MN through the International Baccalaureate program where she was involved in a wide variety of activities including music, dance, athletics, and student organizations. She has also been very active in numerous community/volunteer activities in addition to work experience as a soccer referee and at the City of St. Louis Park Crime Department. She plans to obtain a Bachelor and Master of Science in Nursing with the goal of becoming a nurse practitioner.

**Category II (4-yr recurring - $6,000 total)**

**Kaitlin Hennen** – Kaitlin recently graduated from Spring Lake Park High School in Spring Lake Park, MN, where she was active in a variety of student organizations and athletics. She is also involved in various work and community/volunteer activities including working as a nanny and assisted church volunteer events. She plans to attend either North Dakota State University or the University of Minnesota-Duluth and major in civil engineering.

This year we are also working to setup sponsoring/mentoring scholarship recipients throughout their college careers. Please contact Paul Dierking (paul.dierking@hdrinc.com or 763.591.5473) or Ann Banitt (ann.m.banitt@usace.army.mil or 651.290.5541) if interested in serving as sponsor/mentor.

When you attend the July 14th MSP Post golf outing you will not only be supporting future scholarship awards, but you can also congratulate this year’s winners in person. Thanks again to the entire Post for your help in empowering our youth who are passionate about engineering/science!

2016 SAME Educational Grants Recipients

From a very competitive field of 11 applicants, the selection committee recommended four recipients for a total award of nearly $8,600. Congratulations to these very deserving schools:

1. **Academy for Sciences and Agriculture, Vadnais Heights ($3000)**. This grant will provide robotics kits for Middle School science classes and middle school robotics team competition. First Robotics’ goal is to develop ways to inspire students in engineering and technology fields.

2. **Hamline and Jie Ming Elementary, St. Paul ($2950)**. This grant provides for the purchase of supplemental Engineering is Elementary units and materials. STEM (Science, Technology, Engineering, and Mathematics) materials will promote deeper learning through hands on laboratory experiences. Students will develop greater comprehension of science and engineering concepts as they relate to real world problems and solutions.

3. **Valley Middle School of STEM, Apple Valley ($2733.50)**. Grant funds will be used to support seven schoolwide STEM challenges with a lunar theme including moon rockets, creating a landing platform, moon rovers, heavy lifting crane, on-target zip line, nano obstacle course, and creating a lunar community.

4. **Math and Science Academy, Woodbury ($413)**. Grant funds will be used for three different STEM stations, including geology, electronic circuits, and digital microscopes/slides.

A special thanks to the committee members who also agreed to serve as mentors for these schools during the upcoming school year: Sam Smith, Tim Paulus, and Nate Meisgeier, all with the Corps of Engineers, and Brian Karczewski with Stantec.
Please see the following pages for the 2016 Golf Flyer!

<table>
<thead>
<tr>
<th>Save the Date for the 6th Annual SAME-MSP Awards and Recognition Banquet!</th>
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<tbody>
<tr>
<td>Wednesday, August 10th, 2016</td>
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<tr>
<td>At 6:00 PM</td>
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<tr>
<td>Como Park Zoo and Conservatory</td>
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<td>Bullard Rainforest Auditorium</td>
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<tr>
<th>Distinguished Student Chapter Streamer</th>
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<tr>
<td>The Society of American Military Engineers had 16 out of 59 Student Chapters submit to win a Distinguished Student Chapter Streamer and all 16 of the submissions qualified to receive the Streamer. These student chapters have been mentoring students on engineering and related career options, working with K-12 students on STEM related projects, participated in college level engineering competitions all while being full time students.</td>
</tr>
<tr>
<td><strong>We are very proud of our own University of St. Thomas Student Chapter for achieving this great accomplishment!</strong></td>
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</tbody>
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Please see the following pages for the 2016 Golf Flyer!
Please Register to Attend

On-line registration must be made no later than Friday, July 8th at:
www.wpgolf.com/oakmarsh/same_fundraiser.aspx

Early Registration by June 23rd will enter you in a special drawing to win a Fitbit® and other awesome door prizes!

Individuals, twosomes, threesomes, and foursomes are welcome! Groups less than foursomes will be paired up with other golfers.

Non-golfers are welcome to join us for dinner and socializing. Cost for dinner is $25.00. Additional donations to the Education and Mentoring Fund would be greatly appreciated.

Tournament Format

Best-ball, scramble format, shotgun start at NOON. Prizes will be awarded to 1st and 2nd place foursomes. There will be individual awards in both men’s and women’s categories for longest drive, longest putt, and closest to the pin. There will also be a chance to win $10,000!

Sponsorship Opportunities

Register to sponsor the event through the on-line tool at:
www.wpgolf.com/oakmarsh/same_fundraiser.aspx

The following sponsorship opportunities are available:

- **Hole-In-One Sponsor**—$700 donation (only 4 available)
  - Your company name/logo displayed at tee box, indicating sponsorship at one of the 4 hole-in-one $10,000 contest.

- **Tee/Green Sponsor**—$300 donation
  - Your company name/logo displayed at tee box, indicating sponsorship of hole.

- **Small Business Hole Sponsorship**—$200 donation
  - Your company name/logo displayed at tee box, indicating sponsorship of hole. Only available to small businesses.

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

Cost (includes 18 holes of golf, 1/2 cart, and dinner):

- Employees of Public Agencies: .................. $75
- SAME Young Members (39 and younger): .... $75
- Fully Retired SAME Members: ................. $75
- SAME Sustaining Members: ..................... $95
- Employees of Private Firms: ..................... $95
- Dinner-Only for Non-Golfers: ..................... $25

Register Online at:
www.wpgolf.com/oakmarsh/same_fundraiser.aspx

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

Door Prize Donations Will Be Appreciated!

Please, no corporate logo items, except golf balls.

Dinner Menu:

On the following page.

Special Event:

Prior to the golf tournament this year, SAME will be offering a 2-hour ethics training session from 9-11am at Oak Marsh. This training is intended to satisfy the ethics-related PDH requirements for professional licensure for the 2016-2018 renewal period. Additional information will follow regarding this event and registration will be handled separately from the golf outing.
SAME Golf Tournament – 14 July 2016 – NOON Tee-Off

HAWAIIAN BUFFET DINNER following a great day of golfing:

- Coconut Crusted Chicken
- Maple Glazed Salmon
- Sesame Cabbage Salad
- Curried Rice
- Kahlua Glazed Carrots
- Bread Basket

For more info see: www.same-msp.org or contact
Rachel Pichelmann at 651-724-8245