



Quick Links

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Upcoming Meetings:

- **Wed, May 28th**
Topic: Presentation on Duluth's Flood of 2012
- **Wed, June 25th**
Topic: TBD,

Frequently Used Links:

- National website at www.same.org
- Post website at www.same-msp.org
- Listing of [Post Leaders](#)
- Listing of [Post Sustaining Members](#)

*Note about PDHs:

To the best of our knowledge, this program meets the requirements of continuing education as outlined by the Minnesota Board of Registration and should count as 1.0 PDH or .1 CEU (or portion thereof as indicated in the announcement) of development towards required continuing education credits. Certificates will be distributed to those in attendance immediately following the seminar.

Next Meeting Presentation
Wednesday, 23 April 2014

Developing Tools to Manage Bighead Carp

Terrance D. Hubert, PhD
USGS Upper Midwest Environmental Sciences Center

1/2-PDH

Presentation Synopsis:

Multiple investigations are developing tools for the management of invasive bigheaded carps (Bighead Carp *Hypophthalmichthys nobilis* and Silver Carp *H. molitrix*) that are spreading through the Mississippi River basin and threatening to invade others. This presentation will provide an overview of the molecular surveillance methods USGS is developing, in collaboration with partners, to track and monitor populations of bigheaded carps and identify the limits of the range expansion. The presentation will also discuss the development of potential physical and chemical controls intended to limit or reduce populations of bigheaded carps. Results of laboratory and field investigations of eDNA surveillance tools and physical and chemical control tools will be presented and discussed.

Speaker Bios:

Terrance D. Hubert received a bachelor's degree in chemistry from Ripon College in 1980. From there he attended the University of Iowa where he studied naturally-occurring plant protective chemicals en route to earning a PhD in organic chemistry in 1985. Following a one-year postdoctoral term in the Department of Chemistry at the University of Missouri, Dr. Hubert joined the staff of Hazleton Laboratories America where he conducted research on the metabolism of agricultural pesticides in support of registrations of these chemicals with the Environmental Protection Agency. He entered into federal service in October of 1992 when he was hired at the Upper Midwest Environmental Sciences Center, U.S. Geological Survey, in LaCrosse, Wisconsin, to conduct studies to support the registration

Meeting Location:

Fort Snelling Officer's Club at 395 Minnesota 5, St Paul, MN 55111
See map at http://www.same-msp.org/_images/934thOfficersClub.jpg

Agenda:

Social time and lunch (if you so desire) will be from 11:30 AM to 12:30 PM in the dining room of the Officers Club. Post Meeting and Presentation will be from 12:30 PM to about 1:30 PM in the ballroom of the Officers Club.

Luncheon Menu, Cost, and RSVP Info:

The Club's cafeteria-style lunches are typically \$10.00 or less; people who partake in the cafeteria-style lunch will pay the Officers Club directly. If you come only for the presentations, there is no charge.

Please RSVP with your intent to either partake in the cafeteria-style lunch or to come for the presentation only; this will help the Officers Club staff to ensure that an adequate amount of food is prepared. Either leave a voice mail message with Ann Banitt at 651-290-5541, or click the RSVP button in the left-hand column, or send an email message to ann.m.banitt@usace.army.mil

Highlights of the Previous Meeting

Prof Ted Galambos (I) is thanked by Post President Disa Wahlstrand for his superb presentation on a wide range of aspects pertaining to the safety of bridges both here and abroad. We had great attendance at this joint meeting with the Minnesota Chapter of the American Society of Civil Engineers (ASCE).

As Prof Galambos explained, bridge failures are very rare but when they do occur, they are always sensational and usually very catastrophic. He used numerous examples of bridge failures that he has studied over his long and illustrious career to help illustrate the various causes of failures which can generally be grouped into three areas:

- Failures due to improper design, such as not considering all or proper loading conditions, improper detailing, or lack of peer-review or QC checks;
- Failures during construction caused by inexperienced or ill-equipped contractors or failures caused by inadequate construction oversight by the design engineers;
- Failures during the service life of the structure which can be caused by changes in loading conditions that were not foreseen at the time of design, or by neglected/inadequate maintenance, or by the least controllable of all situations ... natural or manmade disasters.

He concludes his presentation by providing several lessons learned that he has gleaned from his many years of studies and by emphasizing that the engineering profession has the means to make the probability of failure even smaller.



Winners of the Drawing for a Free Lunch

- At the March Meeting — **Karen Wieneri**, Mead & Hunt
Darby Zuelke, EnviroScience
- At the February Meeting— No Drawing
- At the January Meeting — **Roger Clay**, Sustainable Water Group PLLC
Perry Ryan, Burns & McDonnell

Would you like to help with an Explore Engineering Event?

The Minneapolis-St Paul Post of the Society of American Military Engineers (SAME), the University of St. Thomas Student Chapter of SAME, and the Twin City Chapter of the Society of Women Engineers (SWE) are co-sponsoring a Science, Technology, Engineering, and Mathematics (STEM) themed event that will take place at Rice Lake Elementary School in Circle Pines, MN.

Volunteers from the Post are sought to help make this a fun and exciting learning experience for the students and their families. If you would like to help with this event, please contact Rachel Pichelmann at 651-490-2000 or

rpichelmann@sehinc.com

- Date: Thursday, May 8th, 2014
Time: 6-8 PM (Volunteers are asked to arrive at 5:30 PM)
Location: Rice Lake Elementary in Circle Pines, MN

There will also be a special presentation by the Fighting Calculators Robotics Team from the Math and Science Academy!

For more information see http://www.same-msp.org/pdf/2014_Explore_Engineering.PDF

Small Business Info

A good source of information and to see what the other SAME Posts are doing related to small business is to take a look at the latest issue of the SAME Small Business Council's newsletter. You can find it at <http://www.flipsnack.com/baereng/fukavq2e> or on the SAME website on the SB Council page at <http://www.same.org/index.php/committees-a-councils/councils/small-business>.

The MSP Post is featured as one of the articles for our successful Small Business Day last fall. Check it out!

Volunteers for Post Committees and Nominations for Post Officers

It's that time of year again, when we put out the call for a few dedicated Post members who would like to volunteer to help guide and administratively run the Post. Without the help of the dozen or so people that help out, mostly behind the scenes, our Post would not be the high quality Post that it is. Our goal always has been to bring into the leadership roles a few new people each year so that we can avoid having too large of a turnover in any one particular year.

The roles that we really need to have filled as soon as possible are:

- Someone to be the Newsletter editor and publisher (familiarity with MS Publisher is desirable)
- Someone to collect the monthly meeting RSVPs and coordinate our PDH program/tracking
- Someone to be the MFESTS Liaison for the Post (attend quarterly meeting with the MFESTS group)

The Post Officer positions that we will be seeking nominations for are:

- Vice President (typically a past Director), a one-year position that typically leads to the role of President.
- Director at Large (two positions to be filled), a two-year position. Typically one Director comes from the Sustaining Member group of members and one Director comes from the Individual or Public Agency group of members.
- Several Special Directors for focus-areas as Young Members Activities, Fellows-Mentoring Activities, and NCO Activities.
- Young Member Vice-President
- Treasurer
- Secretary

If you are interested in helping the Post continue its excellent track record for providing meaningful activities and value for its members, we would be interested in hearing from you. Please contact Past Post President Rick Femrite at richard.h.femrite@usace.army.mil or 651-290-5550 prior to May 16th.

Mark the Date for the Annual Golf Tourney



The date of this year's **29th Annual Education and Mentoring Fund Golf Tournament** will be Thursday, July 17th at Oak Marsh Golf Course. Please mark your calendars and start rounding up a foursome. More information regarding cost and contact info will be provided next month. In the mean time, if you would like to help us with this event, please contact Tim Thoreen at 651-659-7777 or tthoreen@hrgreen.com.

**SOCIETY OF
AMERICAN
MILITARY
ENGINEERS
MINNEAPOLIS-
SAINT PAUL POST**

c/o US Army Corps of Engineers
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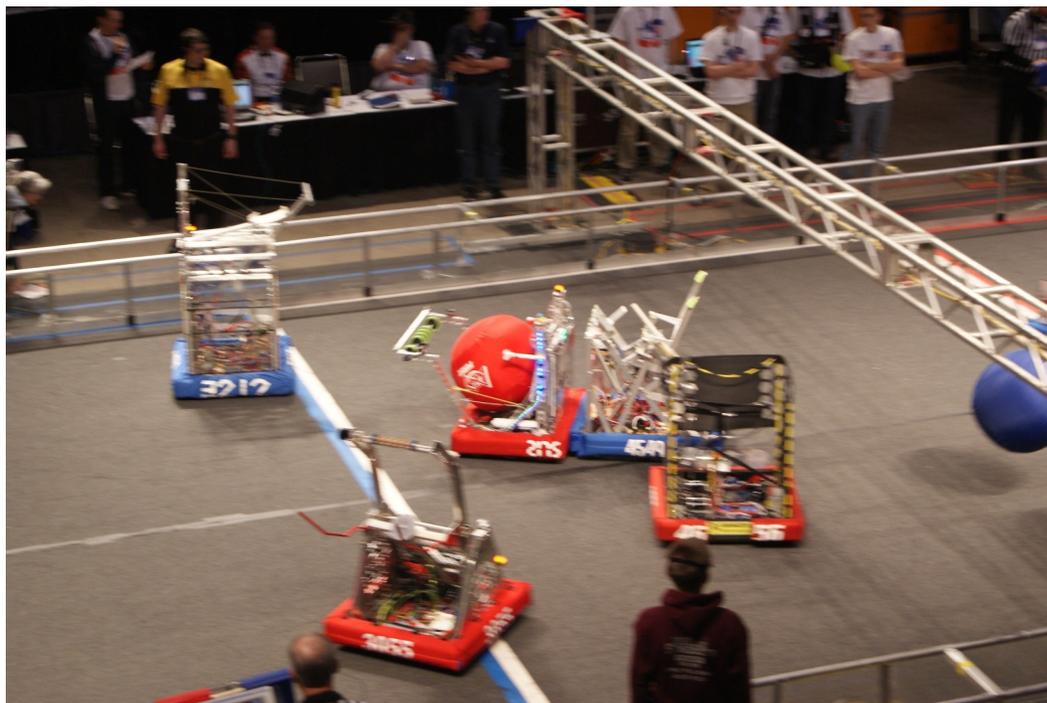
Update on the SAME-Sponsored FIRST Robotics Team

The SAME sponsored FIRST robotics team kicked off this year's competition season with a bang by dominating the field in two regional tournaments. The Fighting Calculators took first place at the Northern Lights Regional in Duluth on March 7th and 8th, which earned them a trip to the Championships in St. Louis. They followed that up with a strong showing at the North Star Regional at the University of Minnesota, making it to the semifinals.

The FIRST (For Inspiration and Recognition of Science and Technology) Robotics Competition (FRC) program allows all teams six weeks to build a robot to address a designated challenge. This year's challenge, dubbed Aerial Assist, required teams to work with each other to a greater extent than ever before. Teams had to be able to transport a large exercise ball around the field and shoot it into goals, while earning extra points for passing it between teammates and shooting it over a beam in the middle called the "truss."

FIRST is celebrating 25 years of inspiring students in science, technology, engineering and math. Through mentor based, hands-on experience, students learn engineering skills, innovative problem solving skills as well as communication, leadership and good sportsmanship. The FIRST Championships will take place April 23-26. The Fighting Calculators will join more than 10,000 talented young people from all over the world in showcasing the skills they have learned and the robots they have constructed.

SAME's Educational grants have supported the Fighting Calculators, both allowing them to compete, but also allowing them to conduct outreach activities so that even more students can participate in FIRST and be prepared for the careers of the 21st century. Our future depends on the skills and preparedness of our youth; the more students we can get involved in FIRST programs, the brighter that future will be.



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