

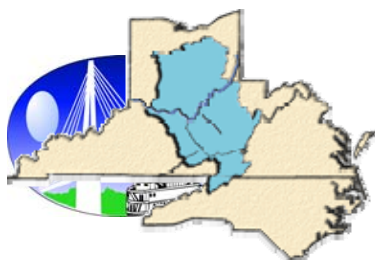


The Bridge

NEWSLETTER OF THE HUNTINGTON POST, S.A.M.E.



www.same.org/huntington



This Month's SAME Meeting 8 July

Topic: Use of process-based design and large woody debris in an urban system – A Case Study of the Design of the Northwest Branch of the Anacostia River

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Presented by: Mr. Scott Lowe, Mr. David Griffin and Mr. Gary Thornhill, PhD

July Meeting

Topic: Use of process-based design and large woody debris in an urban system – A Case Study of the Design of the Northwest Branch of the Anacostia River

Speakers: Mr. Scott Lowe, Mr. David Griffin and Mr. Gary Thornhill, PhD

Date: Tuesday July 8, 2008

Time: 1130 to 1300

Location: Cabell County Main Library, 455 9th St., Huntington, WV 25701

Cost: \$5.00 students \$7.00 members and \$8.00 non-members

**RSVP: Mike Fitzwater at: gary.m.fitzwater@usace.army.mil
Office (304) 399-5933**

Menu: Pot Luck

MONTHLY POST MEETING SCHEDULE

July 8, 2008 – Monthly Meeting

August 26-28, 2008 – Regional Conference

September 9, 2008 - Monthly Meeting

Don't forget to ask Dave Meadows for a PDH certificate if you need one. david.f.meadows@usace.army.mil

Does your firm have a special announcement or major promotion on a SAME member?

If so, contact Tom MacFarland, thomas.g.macfarland@usace.army.mil or (304) 399-5369, and he will include it in the next edition of "THE BRIDGE".



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News from the President:

Greetings to all.

As we celebrate another Independence Day I would ask you keep all of our men and women who serve in the Department of Defense, as well as those who support the Department in your thoughts and prayers. The SAME mission is "To promote and facilitate engineering support for national security by developing and enhancing relationships and competencies among uniformed services, public and private sector engineers, and related professionals." Let's continue our part of strengthening these relationships.

Our Regional conference is just around the corner. Thank you for all of the hard work that has been accomplished to date - keep up the effort, we are close to execution. If you haven't taken the time to register, please do so, so that our committee can solidify some of the logistics for the event. Note that the conference will take the place of our August monthly meeting and the golf outing during the conference will serve as our annual golf outing.

Thanks for everything that you do for our SAME organization.

Colonel Dana R. Hurst, P.E.
 President, Huntington Post

Thank You

A special thank you goes out to Tina Motz for all her hard work in assisting the Huntington Post. Tina has worked long hours to square the Post with the IRS resulting in saving the Post mucho dinero.

Thanks Tina!!!



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This Month's Presentation:

Use of process-based design and large woody debris in an urban system – A Case Study of the Design of the Northwest Branch of the Anacostia River

Multiple challenges arise in restoring incised channels in urban watersheds. Design approaches are often oriented to grade a floodplain to a bankfull elevation, to raise the channel bed to allow floodplain inundation at more frequent flows, or to stabilize the channel in place with large stone structures. These strategies are often limited by prohibitive costs, result in impacts to adjacent resources or produce limited ecological benefits. Therefore an alternative restoration strategy using a process-based design approach is proposed by the Maryland State Highway Administration for an urban stream restoration project in the Washington DC suburbs. During the Preliminary Site Assessment it was apparent that the accumulation of large woody debris (LWD) had a significant influence on channel dimension, plan and profile geometry. Recent studies have indicated that LWD has a tremendous effect on channel processes and morphology and can serve as a principle in-channel roughness element (Abbe et al 2005). Therefore, the design strategy focused on evaluating the relationship between bed structure, channel shape and large woody debris influence. Considering LWD as a factor in the design allows a greater flexibility in determining solutions to the design goals, particularly floodplain reconnection. The addition of wood structures will likely have a significant effect on channel roughness and bed stability: increasing floodplain connectivity and improving/diversifying in-stream habitat. The proposed methods hold great promise for restoring floodplain connectivity of incised channels without significant grading efforts or raising the channel invert with stone structures.

This Month's Speakers:

Mr. Scott Lowe,

Mr. Scott Lowe is an Environmental Scientist and Project Manager for McCormick Taylor's Environmental Design Group. His academic and professional background is in aquatic ecology, wetland ecology, fluvial geomorphology, and limnology and watershed management. Mr. Lowe has over 12 years of experience performing watershed studies, stream assessments, macroinvertebrate sampling and analysis, sediment transport evaluations, wetland delineation and design, fish passage assessment and design, bioengineering and bank stabilization design, and stream restoration design and construction management services. Scott has served as restoration designer or construction manager on over 68,000 linear feet of streams in Maryland, Virginia, North Carolina, West Virginia and Pennsylvania. Scott has developed and presented stream restoration training courses for the U.S. Department of Transportation Federal Highway Administration, the Maryland State Highway Administration, the Indiana Department of Transportation, and the Virginia Department of Conservation and Recreation. Mr. Lowe has extensive experience with sediment transport analysis, bioengineering techniques, hydraulic and hydrologic evaluations, and natural channel design.

Mr. David Griffin

Mr. David Griffin is a Senior Environmental Scientist in McCormick Taylor's (MT) Baltimore office. With 20 years of experience in natural environmental consulting, he now manages the MT Environmental Design group which focuses on the assessment and restoration of wetland and stream systems. He has conducted site analyses, mitigation site selection, mitigation design, wetland/stream remedial design and permitting services



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This Month's Speakers cont.:

Mr. David Griffin cont.

for government agencies throughout the Mid-Atlantic. Mr. Griffin focuses on geomorphology and the restoration of stream systems and has been conducting stream assessments and restoration design since 1987. He has held training sessions on restoration and conducted presentations on sediment transport and geomorphology in urban channels. He is fully trained in the Rosgen classification system and is currently serving as the East Coast Subject Matter Expert in the development of a stream training course on Mitigating Road Impacts on Stream Ecosystems for FHWA's National Highway Institute (NHI).

Mr. Gary Thornhill, PhD

Gary M. Thornhill, Ph.D., Environmental Programs Manager, has over 20 years experience conducting and managing a wide range of environmental projects in over 30 States. He has performed and managed over 500 projects, including ecological, wetlands, endangered species, Superfund, cultural resources, and ecological risk assessment. Dr. Thornhill has written QA/QC procedures and provided QA review as a consultant for the US DOE. Under a U.S. Agency for International Development contract, he conducted an environmental/NEPA training program for senior national environmental officials from Kazakhstan, Kyrgyzstan, Tajikistan, and Uzbekistan. Federal clients have included Corps of Engineers, Army, Air Force, National Guard, DOE, NASA, USEPA, NRCS, Forest Service, FHWA and US AID.

2008 Ohio Valley and Great Lakes Regional Conference

It is our pleasure to invite you to join us once again for the 2008 Ohio Valley and Great Lakes Regional Conference of the Society of American Military Engineers, being held August 26 - 28, 2008, at the Big Sandy Superstore Arena/Conference Center and the Pullman Plaza Hotel in beautiful downtown Huntington, West Virginia. This year's Annual Conference will be hosted by the Huntington Post.

Conference attendance is expected to reach nearly 300 technical registrants. A conference theme of "Managing Risk" with four tracks covering General Risk, MILCON, Dams & Levees and a Young Members track. In an effort to increase traffic in the tradeshow, the Ice Breaker event on Tuesday evening will be provided in the exhibit hall. The Ice Breaker will be a fun night of casino activities and entertainment by the band "Big Planet Soul". Also, as in recent years, we will be hosting breakfast and morning and afternoon coffee breaks in the exhibit hall.

Arrangements have been made for SAME Post's and small businesses with 25 or fewer employees to exhibit at a discounted rate. For more information, please contact Mack McCarty at 304-545-5716 or mmccarty@triadeng.com <<mailto:mmccarty@triadeng.com>> or Mike Fitzwater at 304-399-5933 or gary.m.fitzwater@lrh01.usace.army.mil <<mailto:gary.m.fitzwater@lrh01.usace.army.mil>> for additional information.

We appreciate and look forward to your continued support and we look forward to seeing a great turnout from the Huntington Post at this year's conference.

Sponsorships: We are pleased to offer various levels of Sponsorships for the Annual Conference.

Please contact Cheryl Brunty (Cheryl.D.Brunty@usace.army.mil) to check the current availability of sponsorships or Mike Fitzwater (Gary.M.Fitzwater@usace.army.mil) to check on exhibit spaces or visit our website at www.samehuntington.com <<http://www.samehuntington.com/>> .



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Sustaining Member of the Month



TETRA TECH

Since 1966, Tetra Tech has been a leading provider of consulting, engineering, and technical services. Today, Tetra Tech provides services in infrastructure, resource management, and communications through 275 offices and 8,500 employees worldwide. Its clients include all branches of the United States military and the United States Army Corps of Engineers (USACE).

Tetra Tech's first military contract involved a systems engineering evaluation of a proposed missile defense program for the Air Force in 1985. Since then, Tetra Tech has extended the breadth and depth of its work to the military and the USACE from land use planning, facility design, and construction to environmental remediation, energy conservation, and unexploded ordnance removal.

Contracts with the federal government represent 46% of the company's revenue. USACE consistently ranks among Tetra Tech's top clients, serving 18 districts. This year INCA Engineers joined Tetra Tech, bringing with it substantial experience with USACE lock, levee, and dam projects, particularly with the Huntington District.

The following is a selection of notable Tetra Tech projects for the military and the USACE:

- Since 1992, Tetra Tech has been providing installation and environmental management services to the Air Force Center for Engineering and the Environment;
- Since 2000, Tetra Tech's Resource Efficiency Management program has placed staff at Navy, Marine, and Air Force installations to help save energy and reduce operational costs;
- Tetra Tech provides extensive services worldwide for the military's Base Realignment and Closure program;
- In Iraq, Tetra Tech was part of a team that designed and installed more than 70 first-of-a-kind force protection structures to protect US soldiers from insurgent rocket attacks; and
- Funded by the DoD's Environmental Security Technology Certification Program, Tetra Tech is developing the Marine Gradiometer Array, a marine mapping tool that could help USACE identify and clean up more than 10 million acres of underwater territory that potentially contains munitions.

Tetra Tech's services to the military and the USACE include the following:

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|------------------------------------|-------------------------------------|
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