



The Bridge



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

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- TMG Services
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- Virtual Ceo Consulting

This Month's SAME Meeting 14 July 2009

Topic: Utilizing the Trimble Toolbox for Locks and Dam Monitoring

Presented by: Earnest "Mack" McCarty, Jr, PLS, FSAME

July Meeting

Topic: Utilizing the Trimble Toolbox for Locks and Dam Monitoring

Speaker: Mack McCarty, Triad Engineering

Date: Tuesday, July 14, 2009

Time: 1130 to 1300

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

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

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

Menu: Pot Luck, Dessert and Beverage

UPCOMING POST CALENDAR EVENTS

July 14 – Monthly Meeting

August 2009 – No Monthly Meeting (attend Regional)

August 11-13 – SAME Regional, Detroit, MI

September 8 – Monthly Meeting

October 13 – Monthly Meeting

October 16 – Annual Golf Outing

December 5 – Annual Dinner/Dance

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 **Dan Bailey** at Daniel.S.Bailey@usace.army.mil or (304) 399-5824, and he will include it in the next edition of "THE BRIDGE".

SAME Regional Conference

The Great Lakes and Ohio River Regional conference is being held in Detroit, MI on August 11-13, 2009. Conference details, including the technical program, hotel accommodations, etc. are posted on the Detroit Post's web site, located at www.same-detroit.org/09regional.html.

In lieu of a monthly meeting, we are focusing our time and effort in support of this year's regional in Detroit. Please make plans to join us and represent the Huntington Post. See you there!

News from the President, *Ralph Norman, PE, PS, Post President*

The month of July will be one of change and new beginnings at the Huntington Post. Our Post Vice-President, John Jaeger, has accepted a transfer to the USACE Kansas City District, and the Huntington Post SAME Board of Directors has asked LTC Jason L. Smallfield, Deputy Commander of the Huntington District, U.S. Army Corps of Engineers to step in as our new Post Vice-President. He has accepted, and we appreciate LTC Smallfield's willingness to serve!

Even bigger news is that Colonel Dana Hurst will be retiring at the end of the month, and turning over his command of the USACE Huntington District to Colonel Robert D. Peterson. The Change of Command Ceremony is scheduled for 11:00 AM on Wednesday, 29 July at the Huntington City Hall Auditorium. We would like to see all of our Post Members attend to thank Colonel Hurst for all that he has done to contribute to the success of the Huntington Post and to wish him the best in his retirement; and to welcome Colonel Peterson as the new Huntington District Commander.

Please remember that the SAME 2009 Great Lakes and Ohio River Regional Conference will be held in Detroit, Michigan on August 11 through 13, 2009. This is our regional conference, and the one that we hosted in Huntington in 2008. This event will provide abundant training and networking opportunities for the SAME membership within our Region. For more information, and to register for the Conference, the direct link is at <http://www.same-detroit.org/09regional.html>

Be safe as you travel this summer, and as you make your way to our next Post Meeting on Tuesday, 14 July, 2009.

Younger Members, *Brian Ball, Chair*

We need to fill our rolls with more members. There are plenty of new people being hired this year at the district office as well as in our sustaining member firms. Actively recruit those new employees to participate in SAME. It's a great benefit for them and is quite cost effective. If you need help in any way let me or one of the officers know. We can get membership material in your hands. Help build our great organization!

MU Student Chapter, *Andrew Copley, Chapter President*

New officers have also been elected for the 2009-2010 academic year:

President - Andrew Copley

Vice-President - Mark Upton

Treasurer - Nathan Wagner

Secretary - Caitlyn Davis-McDaniel

Individuals interested in the Marshall University Student Chapter can contact Andrew Copley, new President, at copley86@marshall.edu. Any ideas for on-site visits would be greatly appreciated.

LTC Smallfield steps in as new Post VP

Dr. John Jaeger has taken a temporary position in Kansas City for a few months. In his absence the Board of Directors has nominated LTC Jason Smallfield to take his place as Post Vice President. Please make him feel welcome as a member of our SAME family. Just so you can get to know him a little better, his bio is included in this month's newsletter.



LTC Jason L. Smallfield, a native of Pipestone, Minnesota was commissioned and came onto active duty in 1992 upon graduation from the United States Military Academy at West Point, New York. His education includes a Bachelors degree in International Political Science, Engineer Basic and Advanced Course where he earned a Masters degree in Engineering Management in 1997, the Combined Arms Service Staff School in 1999, the US Army Command and General Staff College (CGSC), and the School of Advanced Military Studies (SAMS) where he earned two Masters degrees in Military Arts and Science in 2003 and 2004 respectively.

LTC Smallfield first reported to the 326th Engineer Battalion, 101st Airborne Division (Air Assault), Fort Campbell, Kentucky in 1993 and began his career as an Engineer Platoon Leader, Assistant Division Engineer LNO, and Executive Officer where he deployed to the Jungle Warfare School in Panama in 1993 along with Operation Safe Passage in Panama in 1995.

Before attending the Engineer Officer Advance Course in 1997, he served as the aide de camp to the Deputy Commanding General of Fort Leonard Wood where he deployed to Haiti in support of the United Nations Mission in Haiti in 1995. After the Advanced Course, he reported to Camp Howze, Korea, where he served as Training Officer and Company Commander for Charlie Company, 44th Engineer Battalion, 2nd Infantry Division from 1997-1998.

From 1999-2000, LTC Smallfield served in an AC/RC assignment at Fort Drum, New York as an Engineer Team Chief in support of an engineer brigade headquarters, a corps mech engineer battalion, a divisional mech engineer battalion, a combat heavy engineer battalion and a construction support company. During this time he deployed in support of Operation Intrinsic Action. From 2000-2002, he served as a mech engineer platoon observer controller and as the engineer company senior observer controller at the Joint Readiness Training Center at Fort Polk, Louisiana.

After completing CGSC in 2003 and SAMS in 2004 at Fort Leavenworth, Kansas, LTC Smallfield was stationed at Fort Bragg, North Carolina with the 82nd Airborne Division where he served as the Assistant Division Engineer of the 82nd Airborne Division, Operations Officer of the 307th Engineer Battalion and the 3rd Brigade Special Troops Battalion, Executive Officer of the 4-73rd Cavalry Squadron, and Operations Officer of the 2-508 Infantry Battalion from 2004-2008. During this time he deployed in support of Joint Task Force Katrina, Operation Iraqi Freedom and Operation Enduring Freedom.

Since 2008, LTC Smallfield has served as Deputy Commander of the Huntington Engineer District, U.S. Army Corps of Engineers, Huntington, West Virginia.

LTC Smallfield's awards and decorations include the Bronze Star Medal, Meritorious Service Medal (3 OLC), Joint Service Commendation Medal, Army Commendation Medal (4 OLC), Army Achievement Medal, Joint Meritorious Unit Award, Army Superior Unit Award, National Defense Service Medal (one bronze star), Afghanistan Campaign Medal (one bronze star), Iraq Campaign Medal (one bronze star), Global War on Terrorism Service Medal, Korean Defense Service Medal, Armed Forces Service Medal, Humanitarian Service Medal (one bronze star), Army Service Ribbon, Overseas Service Ribbon (two), United Nations Mission in Haiti Medal, NATO Medal, French National Defense Medal (Silver), Combat Action Badge, Ranger Tab, Sapper Tab, Senior Parachutist Badge, Air Assault Badge and the Gold Medal of the German Armed Forces Badge for Military Proficiency. He has also received the 1999 United States Army General Douglas MacArthur Leadership Award, the 2009 United States Armor Association's General Frederick M. Franks Award, the Armor Association's Noble Patron of Armor and the Corps of Engineer's Bronze de Fleury Medal. LTC Smallfield is a certified Project Management Professional.

LTC Smallfield and his wife Pamela have two daughters, Jessica (8) and Jamie (6).

This Month's Presentation:

Utilizing the Trimble Toolbox for Locks and Dam Monitoring

Using Trimble GPS, Triad survey crews have completed two Locks and Dam Instrumentation Projects on the Ohio River and are underway on a third dam along with two more on the Kanawha River for the Huntington District of the USACE. The process included the following:

1. The static observations utilizing Trimble 5700 GPS receivers on the base control network for extended observations. These observations were submitted to OPUS-DB for inclusion into the national database and to bring the Corps Project up to current horizontal and vertical datums.
2. RTK observations on the on the approximately 120 monitoring points that were observable by GPS.
3. Multiple terrestrial observations to the remaining points utilizing the Trimble VX Spatial Station and Trimble S6 Robotic Total Station.
4. Vertical control network from existing NGS monuments through the existing USACE control network, utilizing a Trimble DINI Digital Level.

All of this data was then processed and adjusted utilizing the least squares method within Trimble Geomatics Office. Original USACE control was utilized for the NAD27/NGVD29 adjustments. Existing NGS Benchmarks and the results of the OPUS-DB submittals were utilized for the NAD83/NAVD88 adjustments. The 27/29 data was then compared with historic data by calculating station and offset along the lock walls and across the dam. Stations and offsets were then calculated for the 83/88 data for future data comparisons.



Mack displaying GPS surveying techniques at EEAE

This Month's Speaker:

Earnest "Mack" McCarty, Jr, PLS, FSAME

Mr. McCarty serves as a Project Manager for Triad Engineering, Inc.'s Charleston, West Virginia Office. As Project Manager, Mr. McCarty oversees all daily surveying activities for the office as well as marketing of federal work across the firm. Mr. McCarty has expanded the services the firm offers its clients, private, state and federal, by using innovative ideas and technology to meet the demanding needs of a changing economic landscape where innovation and cost intersect.

Mr. McCarty is a graduate of the West Virginia Institute of Technology with a Bachelor of Science in Engineering Technology, Surveying Tract; an Associate Degree in Surveying; as well as an Associate Degree in Drafting and Design; a Licensed Professional Surveyor in West Virginia, Kentucky, Pennsylvania, Tennessee, and Ohio; and a 15-year member of the West Virginia Association of Professional Surveyors.

The Society of American Military Engineers has honored Mr. McCarty for his service to the Society with various district commanders' commendations; the Regional Vice-Presidents Award; and most recently he received an invitation to join the prestigious Academy of Fellows for the Society of American Military Engineers.

Mr. McCarty is an annual volunteer for the Exploring Engineering: Academy of Excellence camp, hosted by Marshall University and Huntington Post SAME, where he volunteers his time and expertise to promote the surveying profession. He resides in Ashton, West Virginia with his wife Paula and their three young sons.

Exploring Engineering: Academy of Excellence 2009



Nine years and counting... SAME Huntington Post and Marshall University have once again partnered to encourage young minds to pursue a career in engineering. This year there were 36 students, all high schoolers of which 14 were female, each wanting to learn more about what an engineer does (besides drive a train!). They were exposed to teamwork,



design, testing, construction, manufacturing, networking, and many other aspects that make engineers work. Several disciplines were explored including Civil, Mechanical, Electrical, Environmental, and Chemical. Participants designed and built a trebuchet, robotic vehicle, designed a new landscape plan for a facility on campus, toured several engineering facilities and interacted with many professionals. Several Sustaining Members supported the students during their luncheons and teaching several events. Thanks for making this year a great success!

Sustaining Members of the Month



Gannett Fleming

Gannett Fleming (www.gfnet.com), a multidiscipline firm founded in 1915, is among leading consultants in the water resources, environmental, facilities, transportation and information technology markets. The company consistently ranks in the Engineering News-Record's top 50 engineering firms. ENR's 2006 rankings place Gannett Fleming in the top twenty for dams and hydraulics, water supply and transportation.

Gannett Fleming's record of reliability and innovation for federal agency assignments spans decades, including service to USACE districts over more than five decades. The firm's support of the Corps mission has ranged from water resources, flood protection and navigation, to military facilities/utilities and emergency management, to environmental protection and restoration.

Recent or active contracts for the USACE have included IDCs for the Baltimore, Pittsburgh, New York, Norfolk and New England districts, as well as individual assignments-such as an update to the USACE grouting manual, and specialty grouting services for projects of the Louisville, Chicago and Little Rock districts. The firm also has performed transportation planning services for more than 120 military bases worldwide.

The company operates more than 50 locations nationwide, including offices in Columbus, Ohio; Pittsburgh, Pennsylvania; and Morgantown, West Virginia. Its professional staff comprises 25 technical practice teams similar to the USACE's communities of practice. More than 800 of us are registered / certified / licensed.

Point of Contact:

Jim Everman

jeverman@utionline.net

Sustaining Members of the Month (Cont)



Geosyntec is a specialized consulting and engineering firm that works with private and public sector clients to address their new ventures and complex problems involving the environment, our natural resources, and our civil infrastructure. Geosyntec has a staff of 600 engineers, scientists, and related technical and project support staff located in more than 30 offices throughout the U.S. and in Canada, Malaysia, and the United Kingdom.

Our private sector clients come from a variety of industrial sectors including oil and gas, chemical, aerospace, pharmaceutical, diversified manufacturing, advanced technology, power and utility, and environmental management. Our private sector clients also include regional and national developers, large commercial property owners, and law firms.

Our public sector clients are departments and agencies of municipal, state/regional, and national governments.

Since our founding in 1983, our business has grown around projects involving environmental studies and remediation, natural resources assessment and restoration, and engineering and design for the environmental, water resources, and geotechnical infrastructures. We are nationally known for our technology leadership, broad experience, and exceptional client service.

Our professionals continue to develop new technology applications and practice capabilities. Our applied research partnerships with leading universities, NASA, U.S. EPA, FHWA, and others are producing better methods for the in situ remediation of recalcitrant chemicals in the environment; management of urban watersheds to reduce pollutant loadings; protection of endangered species from the impacts of storm water runoff; design of industrial and municipal waste disposal facilities; and geotechnical and seismic analysis and design of transportation facilities.

Our goal is to provide the best possible service and value to our clients, to advance technology in our primary practice areas, and to provide a stimulating, progressive, and friendly work environment that will enable us to continue to recruit and retain great staff.

For additional information please call our office at (304) 522-0386.



The SOCIETY OF AMERICAN
MILITARY ENGINEERS
HUNTINGTON POST
P.O. Box 823
Huntington, WV 25712-0823

HUNTINGTON POST, S.A.M.E. BOARD 2009

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HUNTINGTON POST, Academy of Fellows

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