

THE BRIDGE



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APRIL 2011

Huntington SAME Attends 2011 expo

The Huntington Post's debut at the 32nd annual West Virginia Design and Construction Exposition—the largest expo in the state—met with resounding success. The Post sponsored a booth and also 4 of the 62 technical seminars offered during the 2-day event; the expo drew more than 5,000 attendees from 30 states to the Charleston Civic Center on March 23rd and 24th.

On March 23rd, Colonel Robert Peterson gave a presentation on Contracting Opportunities with the Huntington District and Deborah Czewski discussed Small Business Opportunities with the District. On March 24th, Lisa Morgan made a presentation on Construction at Bluestone Dam, and Richard "Gus" Drum discussed Watershed Planning for Sustainable Water Resources in the Ohio River Basin. All of these presentations had a high level of interest and were well attended. The Post plans to have a booth again next year with similar presentations. Next year's Expo will be held on March 21-22, 2012.

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Overview of exhibitor booths

UPCOMING POST EVENTS

- May 10 - Post Meeting
- Jun 14 - Post Meeting
- Jul 12 - Post Meeting
- Aug 9-Post Meeting

Remember monthly meetings are on the 2nd Tuesday of each month. Put it on your calendar as a recurring reminder!

Huntington Post SAME Monthly Meeting

The next monthly meeting is scheduled for May 10 at the Cabell County Public Library in Huntington, WV. Meeting will begin at 11:30AM with lunch following. Our demonstration will begin at noon. Our speaker is Trent L. Dreese, P.E. from Gannet Fleming. He will be discussing composite cut off walls for dams.

Lunch is \$5 for students, \$10 for members and \$12 for non-members.

Make your reservations with Mack McCarty at Earnest.M.Mccarty@usace.army.mil or (304) 399-5957.

PDF Certificates for all luncheons are available by contacting Dave Meadows at David.F.Meadows@usace.army.mil.



Membership Rate Structure

Beginning this year SAME national implemented a new rate structure targeting the uniformed service work forces. This is for both those that wear the uniform and civilians that work for those services as well.

- Uniformed Service - \$60 (one time fee for duration of uniformed service)
- Civilians (uniformed service) - \$45 for 3 years or \$60 for 5 years
- Individual membership - \$85/year
- Young Member - \$35/year
- Student membership is FREE!!
- Life memberships are still available at a tiered rate structure.

If you have not joined or need to renew, now is the time. Go to <http://www.same.org> or contact our membership chair - Debbie Czewski.

News From the President, Ken Woodard, Post President

I'm excited to report that the Post has nominated students to attend two of the SAME engineering & construction camps this summer. Kara, who attends Huntington St. Joseph High School, has been nominated to attend the Seabees camp at Port Hueneme, CA, and Max, of Orient, OH, has been nominated to attend the U.S. Air Force Academy camp in Colorado Springs, CO. The Post will pay the airfare and half of the \$550 registration fee for each of them. Congratulations Kara and Max!

versity, 26 Jun-1 Jul. If you or your company would also like to be a sponsor, please contact David Meadows at david.f.meadows@usace.army.mil or 304-399-5243. Dave is also looking for professionals to share a lunch with the students to share your experience with these future engineers; contact him for more information.

Also, SAME HQ has awarded Ed Stowasser a Young Member stipend to attend the 2011 Joint Engineer Training Conference & Expo (JETC). Ed was recognized for his commitment to and support of the Post, as evidenced in part by offices held including current Post secretary and past Engineering Career Day co-chair. Congratulations Ed!

I hope that you consider attending JETC in Grapevine, Texas, which will be held 24-27 May. This is the international conference for all of SAME. For more information, visit same.org/jetc.

A little closer to home, the Post will be co-sponsoring the Exploring Engineering: Academy of Excellence at Marshall Uni-

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Eleventh Annual SAME Industry Day

The Eleventh Annual SAME Industry Day will be heard on Wednesday, May 18, 2011 from 8:00AM –4:00PM. Registration begins at 7:00AM. This year's Industry day will be held at Hope Hotel and Conference Center on Wright-Patterson Air Force Base, Dayton, Ohio.

The program topic will be *Readiness and Homeland Security Integration and Applications*. Federal Agencies, State Agencies, Military, Utilities, Local Entities, and Industry Experts will be participating in the program.

The cost of attendance is as follows:

- SAME Members -\$80
- Non-Members-\$100
- Government-\$40

A registration form can be found at:

www.samekittyhawkpost.com

For further information, contact Ken Stegall at Kstegall@cms-corporation.com

Younger Members, *Corey Weaver, Chair*

Coming this June will be an opportunity for the Young Members to gather with each other and the sustaining members of the Post, possibly for the first time. A Young Members Social is the works to be hosted at a local business such as the Marshall Hall of Fame Café, the Pub or other similar location. This will give Young Members of the post a chance to network and build professional relationships with the members of the post. This will be an informal event including NO business. If you are interested in attending please contact me before the next

monthly luncheon on May 10, 2011. More information will be provided as it becomes available.

Thank you and I look forward to meeting all of you.

Corey T. Weaver

Young Members Chair

Marshall's SAME/ASCE Chapter Attends Virginia's Conference

Marshall University's SAME/ASCE Student Chapter attended their first American Society of Civil Engineers student chapter competition April 14th -16th. The event named the Virginia's Conference was hosted by WVU. MU's Student Chapter competed in four events placing in two events; the concrete bowling team and the environmental challenge team both brought home third place. The Virginia's Conference two biggest and most unique events are the steel bridge and concrete canoe competitions. Marshall Students plan to compete in the concrete canoe competition in next year's competition.



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Rodney Holbert Is First Winner of ECD Traveling Trophy

Hearty congratulations are due to Rodney Holbert of Burgess & Niple, whose booth was declared "Best Exhibit" by popular vote of the 133 students who attended the Post's 18th annual Engineering Career Day (held February 24th on the campus of Marshall University).

Rodney won with his portrayal of a chef, which underscored his presentation of how Burgess and Niple designed a 26,500-ft² dining facility for enlisted personnel at Fort Lewis in Seattle, Washington. The award-winning facility, which incorporates design-optimization techniques and sustainable components, serves 1300 soldiers in less than 90 minutes, three times daily.

Rodney said, "We thought the students could relate to standing in line in a cafeteria, and we wanted to show that engineers are involved where you really don't think about it--engineers help make life better."



"The cafeteria project included work from electrical, mechanical, geotechnical, structural, and civil engineering disciplines, so the booth prompted good questions and discussions; I connected with some of the students and teachers concerning engineering careers and the importance of engineers in society."

To commemorate his victory, Rodney received an engraved plaque and large trophy from the Post, presented by Mark Kessinger at the March meeting. Rodney will keep the plaque for his efforts, but each year the large "traveling trophy" will be engraved with the winner's name and presented to the victor to covet until the next competition. (Exhibitors are encouraged to begin planning now so they can take the trophy home next year!)



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Sustaining Member of the Month-Cosmos Technologies Inc.

Cosmos Technologies, Inc. (Cosmos) was founded in 1997 by Frederick Douglas, Sr. Cosmos has grown from one (1) employee - the founder - to fourteen (14) full-time employees.

Our employees have a mix of qualifications: Masters, Bachelors, or Associate degrees, professional and technical certifications covering the following disciplines: Chemical Engineering, Environmental Engineering, Civil Engineering, Construction Management, Mechanical Engineering, Chemistry, Geology, and Electronics.

Mr. Douglas' "Leadership Stance" is *"To lead with integrity, creativity and fearlessness; to think cosmically – with the intent to create excellence – not only in terms of wealth, but in the positive growth of human potential."*

For approximately six (6) years, Cosmos has served the

United States Army Corps of Engineers (USACE) Baltimore and Huntington Districts

Cosmos provided **Construction Support and Design Review Services** for the installation of a sewage wastewater (septic tank – **constructed wetlands** – UV disinfection) treatment plant on Smith Island, Maryland. After this system was installed and operating for approximately one (1) year, Cosmos performed a design review of the plant to determine how the treatment efficiency could be enhanced.



The use of wetlands in treating sewage wastewater is an emerging and relatively new use technology in Maryland and the northeastern US. Cosmos performed site inspections, reviewed vendor submittals and shop drawings to verify conformance to contract specifications, evaluated performance data relevant to past permits, and evaluated such data for trends and significance. In addition, Cosmos performed mathematical modeling of the constructed wetlands to evaluate BOD and fecal coliform removal efficiencies and used this information to estimate a new wetlands area required for achieving NPDES discharge permit requirements.

Cosmos provided **Quality Insurance Inspection Services** to the USACE – Huntington for the installation of two (2) lock chambers on the Marmet Locks & Dam in Belle, West Virginia. This work included the inspection of rock excavation, foundation treatment, embankment and concrete placement, embedded materials, reinforcing steel, structural steel assembly, welding, drainage installation, safety, and environmental compliance.

Currently, Cosmos is providing **geologic support services** to the Huntington District



Corps of Engineers' Geotechnical Branch. Mrs. Kimberly Davidson, a Cosmos employee, is providing these services from the Huntington District office. Geologic support has been provided on a number of projects such as Bluestone Dam DSA, Dover Dam DSA, Sutton Dam DSA, and Soo Locks Lock Replacement. Services have included creating geologic cross sections, profiles, top of rock countour maps, and boring logs, logging rock core at the Huntington District geotechnical warehouse, and producing exhibits for



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various project reports. Cosmos has been providing these services for the last three years.

Water Resources Engineering Services

Cosmos is currently providing *Water Resources Engineering Planning Services* to the Allegheny County Sanitary Authority (ALCOSAN), which is focused on eliminating Combined Sewer Overflows (CSOs) to the Allegheny, Monongahela and Ohio rivers. These services are: Existing conditions evaluation; GIS mapping; Hydrologic and hydraulic modeling using SWMM software; Screening and Costing of various basin-wide alternatives; Flow monitoring, Modeling and Water Quality Sampling services.



Construction Management Services

Cosmos provided *Construction Management Services and Project Engineering Services* as a sub-consultant to PJ Dick during the construction of the **Consol Energy Center (the Pittsburgh Penguins Arena)**. Cosmos provided support from August 2008 to December 2010.

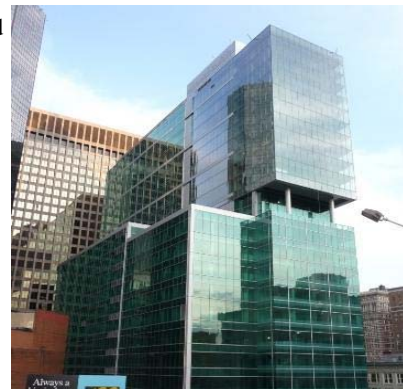


The work included: estimating the costs of sub-contractor bid packages and comparing the estimated costs received from the bidders; issue change orders to subs and estimate the cost changes associated with the change orders; write scopes of work that are placed in the sub-contractor's bid packages.

stories erected in downtown Pittsburgh since the 1988 completion of Dominion Tower. 3 PNC Plaza was built by PNC Bank, headquartered in Pittsburgh. The core and shell were completed in the spring of 2009. The 630,000 sq. ft project consists of PNC Bank, Hotel space, and office space. Condos also take portions of the top floors. The project includes 3 levels of underground parking.

Cosmos provided *Construction Management and Project Engineering Services* as a sub-consultant to **Oxford Development** to construct the **3 PNC Plaza**. This is the first tower over 20

The services provided included daily site inspections of ongoing construction, verifying that contractors are performing work correctly, on schedule and on budget; directing appropriate actions for correcting deficiencies and maintain adequate records of daily management activities.



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Environmental Management Consulting Services

Cosmos Technologies, Inc. provided *Environmental Management Consulting Services* (Phase I and II Environmental Site Assessments-ESA) to the **Hill House Economic Development Corporation (HHEDC)** for the development of a parcel of land on which a Shop-N-Save grocery store will be constructed in the Hill District of Pittsburgh, PA.



Phase I ESA included: Review and evaluation of historical aerial photographs, Sanborn fire insurance maps, and/or county/city directories; review and evaluation of existing background information; site inspection and interview of local residents; review USGS topographic, geologic, hydrogeologic, and hydrologic information; site reconnaissance of surrounding properties to identify any environmental concerns.

Phase II ESA included: Preparation of the site sampling plan; monitoring of soil sampling activities; analysis and evaluation of the laboratory results from soil sampling.

Cosmos has provided other *Environmental Services* such as Toxic Release Inventory (TRI) Reporting, Hazardous Waste and other Solid Waste Management and Treatment, Stormwater Management and Permitting Services, Hazardous Substances Risk Assessment Management and Air Permitting and NPDES Permitting services for other clients.

Environmental Research & Development – Marcellus Shale Wastewater Recycle & Coal Gasification Slag Beneficial Reuse

In addition to the above services, Cosmos is developing Innovative Technologies to solve environmental challenges in Industrial and Municipal Water and Wastewater Treatment and Disposal. *Cosmos is developing an innovative catalytic process for treating and recycling Marcellus Shale wastewater (Frac water) which removes heavy metals, organics, radionuclides and suspended solids from the wastewater.* This innovative process is also effective in treating Acid Mine Drainage, Poultry/ Hog wastewater, Pulp and Paper wastewater, recalcitrant organics (Endocrine Disruptors) waste-water, and wastewater containing radionuclides.

In addition, in 2005-2006, Cosmos Technologies, Inc conducted Innovative Research under a contract from the DOE/NETL to characterize coal gasification sludge and establish what innovative by-products can be made from this sludge. Please see the link, which gives a detail explanation of this research initiative: http://www.netl.doe.gov/technologies/coalpower/ewr/coal_utilization_byproducts/utilization/igcc.html. Cosmos has identified a number of useful products which can be made from coal gasification slag.

For more information on how Cosmos Technologies, Inc. can assist with your next project, please visit our website at www.cosmostechnologiesinc.com or contact Frederick Douglas, President at (412) 321-3951 (office) or (412) 287-1961 (cell)



Does your firm have a special announcement or promotion of a member? Contact Ed Stowasser, Post Secretary, for inclusion in an upcoming issue of "The Bridge".
 Phone: 304-399-5106
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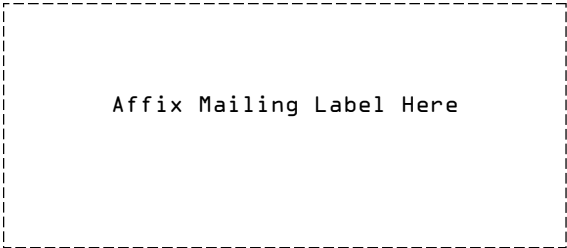


SUSTAINING MEMBER FIRMS

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- McTech Corporation
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- Novel Geo-Environmental, LLC
- Palmer Engineering
- PB
- Photo Science
- Prime Engineering & Architecture
- Stanley Consultants
- Stantec
- Terradon Corporation
- Terraine
- Tetra Tech
- The Peck Group, PC
- THP Limited
- TMG Services
- Triad Engineering
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- Woolpert

Huntington Post Society of American Military

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