

The Voice

DECEMBER 2012

Voice

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COMPANIES OF TENNESSEE

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U.S. Army Leading by Example on Fort Campbell Projects

by *John Agee, PE*
Branch Manager, Senior Engineer
S&ME, Inc.

Fort Campbell, Kentucky, is most widely known as the home of the 101st Airborne Division's Screaming Eagles. The 105,000 acre military post was established in 1942



John Agee

and is located on the Tennessee-Kentucky state line between Clarksville, Tennessee, and Hopkinsville, Kentucky. The post supports more than 30,000 active duty military and an additional 23,000 family members making it the 5th largest

military population in the United States Army and 7th largest in the entire Department of Defense.

No Shortage of Projects on Post

Having two generations before me who served in World War I and World War II, and numerous family members serving in the Army since, I get excited about projects around the post. I've provided consulting services on post projects since 2006 and have been amazed and impressed at the volume of new construction, of which a large portion benefits troops and their families. New single-family housing com-

munities have been constructed at the southern end of the post, while new barracks are going up in the northern half. A new super-sized commissary has been completed for shopping, and a new physical fitness facility is now under construction. In addition, a major expansion is currently underway at Blanchfield Army Community Hospital. New greenways, bike trails, and outdoor mall shopping areas are also being considered. A good number of training, maintenance, and specialized facilities are also being constructed on post.

Virtually all design and construction considerations include ergonomic and environmental components, such as those promoted

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A new 64,000 square foot physical fitness center is now under construction at Ft. Campbell. The facility will support the needs of the military, their families, and the Army Wounded Warrior Program. Rendering provided by: Gresham Smith and Partners

Elected Leaders and Engineers, Working Together

by Steven Field, PE
President, ACEC of Tennessee

The election cycle is over. The automated calls and constant political commercials have stopped . . . for at least a while. Now, it is our responsibility to inform and work with our elected leaders helping them make decisions that are in the long-term best interest of our nation. Our government must take on the challenge of controlling our debt and deficit spending along with making it a priority to fix and maintain our aging, and in some cases, crumbling infrastructure. The consequences of inaction are immense. The costs to future generations



Steven Field

will be impossible to afford; the implications to the economy are untenable and devastating. There are no easy answers but we, as a profession and industry, must help our elected officials understand the ramifications.

Over the next few months engineering firms across the state will be developing their Engineering Excellence Award submittals. There is an exciting crop of projects - 30 projects from 22 firms have entered. The projects cover all facets of engineering in categories that cover studies, buildings, transportation, energy, water resources, and industrial projects. The projects, all managed by Tennessee firms, were implemented in five states. The judges will have a tough time choosing winners. It will be exciting to see which projects come out on top in nine different categories. Make sure that you reserve your table for the Gala event so you don't miss it!

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Manager of Member Services

Fort Campbell (continued from page 1)

by Leadership in Energy and Environmental Design (LEED). Planners, architects, and engineers, under the watchful eye of the United States Army Corps of Engineers (USACE), are incorporating décor pleasing to the eye, energy efficient lighting and insulation, minimalist emissions, and conservation of water resources. These are in addition to the rugged functionality and security that is required at a military post where auto traffic varies from a Volkswagen Beetle to a tank.

Providing Inspiration for Future Engineers

Not only is the USACE using energy efficient design and construction materials for its facilities, it is also encouraging their use, along with professional and construction trades, to the next generation.

In addition to new housing on post, new schools are being planned and designed as well. The schools are not only going to be LEED-certified buildings, but they will show the student body why and how the buildings work. The hope is to fuel an appreciation and interest in engineering for our future workforce.

Imagine an interior wall of your school being covered in plexi-glass that lets you see the steel columns, light-gauge metal, or wood framing. Visible would be the different types of insulation, along with electrical conduits, wiring, and components. Imagine an area on the floor where you can see piping carrying fresh water and water from geothermal systems. Imagine yet another window

through the ceiling for views of HVAC systems, roof framing, and sprinkler systems.

Needless to say, all of the younger generation that communicates and plays virtually won't get excited about design and construction, but we just need a few to take interest and keep things going. Hats off to the USACE for using and promoting sustainability/high-performing buildings and fostering the next generation.

Member News

Congratulations to the following ACEC of Tennessee member firms named to the ZweigWhite "2012 Hot Firms" List:

- 37 - S&ME, Inc.
- 48 - Tetra Tech, Inc.
- 63 - A. Morton Thomas & Associates, Inc.
- 65 - Garver, LLC
- 96 - Hanson Professional Services, Inc.

Congratulations are also in order for these ACEC of Tennessee members that appear at the top of Engineering News Record's annual "Top 500" rankings:

- | | |
|--------------------------|--------------------|
| 1 - AECOM | 15 - Parsons |
| 3 - Jacobs | 22 - CDM Smith |
| 7 - AMEC | 24 - Stantec |
| 8 - Tetra Tech | 26 - Michael Baker |
| 10 - Parsons Brinkerhoff | 29 - Atkins |
| 12 - Arcadis | 39 - Terracon |

Entries are in for Engineering Excellence Awards

Thirty projects will compete for honors in the 2013 *Engineering Excellence Awards* competition.

Twenty-two ACEC of Tennessee member firms, including one new member firm, will vie for the prestigious awards. The projects entered in competition are located in cities and towns across Tennessee, Alabama, Kentucky, Mississippi, and West Virginia.

"I am pleased and excited by the number of entries and impressed by the diversity of the project work," said Brad Winkler, PE, EEA program chair, and Senior Associate at TranSystems Corporation. "We have a collection of projects that speaks volumes about how engineering affects everyday life. Entries range from a levee to protect against flooding to bridge inspections, transportation projects, and greenways. The scope of these projects is nothing short of immense." Donna Corlew, Mid-South Marketing Manager at Brown and Caldwell, serves as the EEA event co-chair.

What's Next in the Process?

Now that entries have been submitted, the entrants must complete and submit information notebooks and panels that describe their project entries in detail. A panel of independent judges will convene in February to review all of the entries with the additional information. At that time, they will complete an evaluation of each project to determine which projects ultimately come out on top.

Winners of the *Engineering Excellence Awards* will be announced on the evening of March 5, 2013, during a banquet at the Franklin Marriott Cool Springs in Franklin, Tennessee. An overall *Grand Iris Award* will be presented in addition to a *Grand Award* in each entry category. Publicity concerning competition entrants and award winners is distributed statewide.

Thank you, EEA Sponsors (as of November 15)

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2013 EEA Entrants

AMEC Environment & Infrastructure, Inc.:

Environmental - Target Organ Segregation Helps Goals & Costs, Castleberry, AL

AMEC Environment & Infrastructure, Inc.: *Special Projects* - Reclamation of Soil Impacted with Soda Ash, Slaughters, KY

AMEC Environment & Infrastructure, Inc.: *Studies, Research, & Consulting* - Nashville Safe Program, Nashville, TN

AMEC Environment & Infrastructure, Inc.: *Surveying and Mapping* - EcoSpatial Information Database, Nashville, TN

Askew Hargraves Harcourt & Associates, Inc.: *Structural Systems* - Seismic Retrofit of Winchester Structures, Memphis, TN

Atkins North America, Inc.: *Transportation* - C-5 Upgrade and Extend Runway and Taxiway, Martinsburg, WV

Barge Waggoner Sumner & Cannon, Inc.: *Special Projects* - Gatlinburg Underground Utilities, Gatlinburg, TN

Barge Waggoner Sumner & Cannon, Inc.: *Water Resources* - Opryland Levee, Nashville, TN

CDM Smith, Inc.: *Water Resources* - Franklin Integrated Water Resource Plan, Franklin, TN

EnSafe, Inc.: *Environmental* - Successful Low-Concentration TCE Remedy in Groundwater, Millington, TN

Ensafe Inc.: *Studies, Research, and Consulting* - Leveraging Technology for Safety Performance, Midway, TN

ETI Corporation: *Studies, Research, and Consulting* - Hernando Parks Master Plan, Hernando, MS

ETI Corporation: *Special Projects* - Wolf River Greenway, Memphis, TN

Fisher & Arnold, Inc.: *Special Projects* - Duck River Walk, Columbia, TN

Garver: *Transportation* - Henry County Parallel Taxiway Relocation, Paris, TN

Gresham, Smith and Partners: *Transportation* - Nashville Public Works 28th-31st Avenue Connector, Nashville, TN

Gresham, Smith and Partners: *Water and Stormwater* - Bowling Green WWTP Expansion and Renovation, Bowling Green, KY

J.R. Wauford & Company Consulting Engineers, Inc.: *Water Resources* - Carroll County Lake and Environmental Mitigation, Huntington, TN

James + Associates, Engineers & Planners, Inc.: *Structural Systems* - Bridge Deck Replacement, I-24 - Main & Woodland Street, Nashville, TN

K.S. Ware & Associates, LLC: *Special Projects* - I-40 Design Build Geotechnical Design, Nashville, TN

Kimley-Horn and Associates, Inc.: *Special Projects* - Ridgeway Trace, Memphis, TN

Neel-Schaffer, Inc.: *Structural Systems* - Mississippi Bridge Inspections, Mississippi

Parsons Brinckerhoff: *Transportation* - Korean Veterans Boulevard Extension and Roundabout, Nashville, TN

Ross Bryan Associates, Inc.: *Structural Systems* - Min Kao Electrical and Computer Engineering Building, Knoxville, TN

RPM Transportation Consultants and Collier Engineering Company: *Small Projects* - Nashville Music City Bikeway, Nashville, TN

S&ME, Inc.: *Environmental* - Rossville Avenue to Main Street (former Lockhart site), Chattanooga, TN

Smith Seckman Reid, Inc.: *Water and Stormwater* - Overlook Reservoirs, Alcoa, TN

Smith Seckman Reid, Inc.: *Water and Stormwater* - Smyrna Water Treatment Plant, Smyrna, TN

Stantec Consulting Services, Inc.: *Small Projects* - Little Swan Creek Stream Restoration, Lewis County, TN

TTL, Inc.: *Studies, Research, and Consulting* - Pine Street Flatts, The Gulch, Nashville, TN

CALENDAR

JANUARY
11

EEA Entry Notebooks
& Panels Due

JANUARY
25

ACEC Scholarship
Applications Due

FEBRUARY
17-23

Engineers' Week

MARCH
4

ACEC Legislative
Reception

Hermitage Hotel

6:00 p.m. to 7:30 p.m.

MARCH
5

Engineers' Day
on the Hill

State Capitol,
Nashville

9:00 a.m. to 1:30 p.m.

*Engineering Excellence
Awards* Banquet

Franklin Marriott
Cool Springs

6:00 p.m. to 9:00 p.m.

MARCH
6

ACEC of Tennessee
Board Meeting

Franklin Marriott
Cool Springs

8:30 a.m. to 11 a.m.

APRIL
21-24

ACEC Annual
Convention &
Legislative Summit

Washington, D.C.

Tennessee Engineering Center
800 Fort Negley Boulevard
Nashville, TN 37203

Return Service Requested

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Welcome, New ACEC Member

James + Associates,
Engineers & Planners, Inc.
One Vantage Way
Ste. E-220
Nashville, TN 37228
(615) 726-4848
www.jamesplus.net

Key contact:
Darrell James
Darrell.james@jamesplus.net

James + Associates is a civil engineering firm providing: site design, water, wastewater, natural gas utilities design, bridge and roadway design, land surveying, GIS development, property planning, and permitting and zoning consultation. Special studies including cost-of-service modeling and economic analysis are also provided.

FROM THE EXECUTIVE DIRECTOR

Where We've Been; Where We're Going

by Candy Toler
Executive Director, ACEC of Tennessee

The election is over and all of the ballots have been counted. The composition of Tennessee's 108th General Assembly will be strongly Republican: 70-28-1 in the House and 26-7 in the Senate. The caucuses will elect their leaders this month and the solons will be in Nashville to convene the session at high noon on January 8, 2013.



Candy Toler

But it's December and my thoughts turn to the holidays and getting ready for the New Year.

2012 was a year chocked full of activities. Here is a look at a few of our successes. ACEC of Tennessee:

- combined forces with ASCE to have the biggest annual meeting ever and a fun PAC Auction!
- collaborated with the State Architect to increase communication with the design and

construction community about state projects

- got legislation passed continuing the State Engineers' and Architects' Board for 4 years
- enjoyed great attendance at the Engineering Excellence Awards banquet and Engineers' Day on the Hill
- initiated a well-attended planning session to chart the course for the association's next few years, including developing a strategy for solving the infrastructure problem on the state level (energy distribution, water and wastewater, and transportation). It's an effort that will be ongoing for years to come.

2013's agenda includes getting to know 22 new legislators and educating them about the significant role engineers play in protecting the health, safety, and welfare of Tennesseans. Plan to assist in that effort by attending our Legislative Reception on March 4th and participating in Tennessee's Engineers Day on the Hill on March 5th. We will also celebrate Engineering Excellence on March 5th, so make plans to attend.

We hope that your holidays are great and that 2013 is a fabulous year for engineering firms!