

DISCOVER
ENGINEERS WEEK
FEBRUARY 21-27, 2016



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PAST PRESIDENT AWARD



DANIEL BARGE AWARD



YOUNGER MEMBERS FIRST MEETING



FIELD TRIP FUN

**EXCITING THINGS
ON THE HORIZON!**

2015 OUTSTANDING CIVIL ENGINEERING PROJECT OF THE YEAR

The ASCE Knoxville Branch recognized the Lakeshore Park Abatement and Demolition Project as the Outstanding Engineering Project for 2015. The City of Knoxville is transforming 185 acres of the former Lakeshore Mental Health Institute into Lakeshore Park. Quantum Environmental & Engineering Services, LLC (QE2) was the design engineer for abatement and demolition. QE2 had performed many tasks on the site while working under multiple Tennessee Statewide Environmental Services Contracts and was familiar with the facilities and operations of the Lakeshore Mental Health Institute. QE2 demonstrated appreciation for the site's history and for its potential as a City park.



The Engineers partnered with the City of Knoxville (Owner) and the awarded Contractor to accomplish the work of the project, which involved design and abatement and demolition of more than 20 buildings in a year's time. The project was completed with the respect required to impact a facility that had served the public of East Tennessee for 126 years as a mental health institute and for a couple of decades as a City Park. The project was completed without closing the park or even closing the site roads except for one partial road closure during demolition of the smokestack.

There were many challenges to the project, not the least of which was trying to continue to provide utility infrastructure and continual service to buildings that were to remain. The buildings to remain included an operational residential facility serving approximately 12 mentally handicapped clients of Helen Ross Mcabb. This was especially challenging because the utilities were a mixture of types of pipe and conduit, some of which were close to 100 years old. Additionally, many other onsite projects were ongoing at the same time, including restoration and renovation of the 100 year old Administration Building to the headquarters for Knoxville's Parks and Recreation Department, and the development of a fully accessible playground. The work was designed to accommodate ongoing events at the sports fields and throughout the campus, including different track and field events, soccer and baseball events. Several meetings and social events for users such as the City Mayor Budget presentation or the Pilot Flying J Employee Appreciation Day were also held during the Project.



The other component which allowed QE2 to provide a remarkable product was in Tree Preservation. QE2 worked with the City of Knoxville's Urban Forester to prepare specifications that protected the trees on campus and nearby buildings from damage during the abatement and demolition project. Some of these trees are more than 100 years old, and since the facility is planned to be a City Park, it was necessary to protect every tree possible.

The Knoxville ASCE Branch submitted the nomination to the Tennessee ASCE Section, and the project was awarded one of two 2015 Outstanding Engineering Project of the Year awards at the Section level.

BRANCH FIELD TRIP



SHERMANDIXIE

On October 8, 2015, Sherman Dixie hosted the Branch for lunch and a Lenoir City plant tour. **The plant was manufacturing 8' diameter "dry poured" pipe sections that day.** 36

participants, including consulting engineers, municipal and ORNL engineers, and TDOT officials from both Knoxville



Tour participants look out over the storage yard at different products.

and Chattanooga enjoyed seeing the process by which concrete products are made and the process used to ensure quality. The plant educated us as to the way work orders are used, the types and frequency of inspections and certifications, and the different types of products made at the Lenoir City Plant and other Sherman Dixie Plants across the nation.

Thanks to Lukas Salyer for organizing the event!



Sherman Dixie workers remove a new concrete pipe from a mold.



Inverts are formed inside the manholes -Very Complicated work!

The new ASCE Younger Members Group met for the first time on November 19, 2015 at the Bearden Beer Market. 16 attendees showed up for this social and networking event, sponsored by Cannon & Cannon. The Younger Members Group is open to all engineers and E.I.'s 35 years old and younger (as well as college students), with a goal of creating social and service events, with occasional educational opportunities, to connect young engineers in Knoxville and East Tennessee.

Future events are being planned for early 2016! Be on the lookout for information regarding a Knoxville Ice Bears or UT Basketball game in February, a river clean-up service project in April, and a Tennessee Smokies game over the summer. Sponsorship from the Engineering Community for events is welcome and needed!



YOUNGER MEMBER GROUP HOLDS FIRST SOCIAL MEETING!



Helen Hennon receives Past President Award



At the November Branch meeting, current Branch President Sam Mayes presented Helen Hennon with the Award for Outstanding Leadership and Service for being the 2014 Knoxville Branch President. This is the second time that Ms. Hennon has served as Branch President, serving in 2012 as well. During Ms. Hennon's last term as President, she was able to found a Younger Members Group, work with ASCE Society level to make the Knoxville Branch a website; originate the first quarterly Branch Newsletter, and organize a Branch Field trip. Ms. Hennon is continuing to work with the Younger Members Group and help prepare the quarterly newsletters, as well as provide guidance in her role as Past-President.

Daryl Armentrout Receives Daniel Barge Award



Sam is presenting the Daniel Barge Award for Distinguished Service to Dr. Daryl Armentrout, PhD, P.E. Dr. Armentrout's career with TVA spanned 45 years, and encompassed many different projects as both a structural engineer and a manager. A summary of his work experience is attached. One of Dr. Armentrout's most important accomplishments was developing a new design approach to the nuclear reactor containment building. This new design approach included use of a post-tension concrete structure and a steel liner anchored to the concrete inside. He worked in conjunction with other engineers and Dr. Edwin Burdette of the University of Tennessee to complete an extensive testing program. Dr. Armentrout eventually took that research and developed a finite element model which he used to complete his doctorate program in civil engineering at the University of Tennessee. This design was implemented at the Bellefonte Nuclear Plant in Alabama.



Daryl Armentrout swearing in next year's officers (Sam Mayes, Dan Boles and Nancy Roberts) Nathan Mathis, Vice President was not available.

2015 Branch Government Engineer Award

The Knoxville ASCE Branch recognized Shawn Fitzpatrick as the 2015 Government Engineer of the year and submitted a nomination for Mr. Fitzpatrick to the Tennessee Section as their 2015 Government Engineer of the Year. Mr. Fitzpatrick is a professional engineer in Tennessee, and has been working with the City of Knoxville's Engineering Department for almost 20 years. His years of service have offered the opportunity to serve our Knoxville community by splitting his time as an engineering designer and manager for close to \$50 million in capital improvements projects. Mr. Fitzpatrick takes pride in his work and the position he holds as a steward for the taxpayer's dollar. In the past three years, Mr. Fitzpatrick manages professional service contracts for bridge replacements, streetscapes, drainage improvements, new sidewalks, new roadways, slope stabilization, planning studies, building abatement/demolition, and new parks. He has managed construction contracts totaling \$12,626,000 in construction costs with projects that include new roadways, new parks, drainage improvements, and building abatement/demolition. He conducts in house design for projects for citywide sidewalk replacement, ADA curb cut installation and alley paving. Mr. Fitzpatrick also managed the City of Knoxville Bridge Program, Sidewalk Safety Program, ADA Curb Cuts Program, as well as Temporary Traffic Control Permits, and the Utility Maintenance and Construction Permits.

ASCE KNOXVILLE BRANCH ANNOUNCES NEW WEBSITE



The ASCE Knoxville branch has been working to create a new website which is a major milestone in the history of the group. Becky Rehorn of member company, Vaughn & Melton Consulting Engineers, has been impetus in getting this new site ready for the next phase of growth for our organization!

**SAVE
THE
DATE**

SIX MONTH LOOK AHEAD

JANUARY



FEBRUARY



MARCH



APRIL



MAY



JUNE



JANUARY

- 20th: Leadership Meeting at Michael Baker, Inc.
- 21st: Evening - Section Meeting and PR University for Officers
- 22nd: All Day - Section Meeting and PR University for Officers
- 26th: Knoxville ASCE Regular Monthly Meeting at Calhoun's on the River (Joint meeting with ACEC). Speakers are Chris Burl and Sam Mayes: Risk & Financial Management for A&E Projects.

FEBRUARY

- 4th: Leadership Meeting - Location to be determined
- 9th: Knoxville ASCE Regular Monthly Meeting at Buddy's Banquet Hall. Speakers are Jeff Beckett and Dawn Michelle Foster: Sutree Landing
- 9th: Younger Members Event - Knoxville Ice Bears 7 PM
- 18th: Annual TSPE Banquet at the Knoxville Marriott on Hill Avenue. **Deadline for reservations 02/11/2016.**

MARCH

- 8th: Engineer's Day on the Hill - Nashville, TN
- 30th: 8-Hour Seminar at Buddy's Banquet Hall in Knoxville
Speakers/Topics Include:
 - Ken Barry, Ethics
 - Al Hogan, Concrete Materials
 - Andy Powers, Privatizing Roads at UT
 - Kevin Hon, GeoPhysics
 - Becky Rehorn, The Power of LinkedIn

APRIL

- 12th: Knoxville ASCE Regular Monthly Meeting at UT Tickle Building - Joint Meeting with Student Chapter to Install Newly Elected Officers for New School Year. Students Provide A Report On Their Participation In The Annual Asce Student Conference.

MAY

- 10th: Knoxville ASCE Regular Monthly Meeting at Oak Ridge Civic Center in Oak Ridge, TN

JUNE

- 14th: Knoxville ASCE Regular Monthly Meeting at Buddy's Banquet Hall in Knoxville



Tennessee Society of Professional Engineers

A state society of the National Society of Professional Engineers

You are invited to join us on Thursday, February 18, 2016 for a celebration of STEM educators, engineers, and their impact on society.

ASCE sponsors two tables at the banquet. ASCE members and their guests are invited to reserve a place at the branch member's table on a first come first served basis. ASCE requests that you come to the event if you make a reservation. The other table is offered to the student chapter and typically we have a very big turnout of students.

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ASCE
TENNESSEE SECTION
Knoxville Branch

www.asceknnoxville.org