President’s Letter
Colonel Chris Hussin
President, Tulsa Post

Hard to believe another quarter has passed us by, and I know that for many of you the summer season is the busiest time of year as we are neck-deep in construction operations across the state in both the private and public sectors. We had a great program over the past three months, and I want to thank all of those that helped organize or gave presentations. Presentations on Wind Energy, the KC-46A Program and Oklahoma Contracting Opportunities are invaluable to our members, and attendance at our events continues to grow. Thanks to all that participated in our Spring Community Service Event. While it was a bit cold, and the wind was not our friend, the “Up With Trees” event was a lot of fun, and Anna promises me that one of these days we are actually going to plant some trees!

We recently saw a change in SAME leadership at the national level. COL Marvin Fisher, USAF (Retired), became our 99th National President at the recent JETC. His theme for 2018-2019 is “Just one More”. I imagine many of you are wondering what this means, so I want to use this forum to help explain.

Everyone has a passion or need for being a member of SAME. He’s asking all of us to think about that thing we can do “just one more of” to improve our support to SAME’s overarching purpose and mission of Enhancing National Security. What additional relationships can you build with other like-minded members of SAME? What additional opportunities can you pursue in support of national security? What technical sessions or conferences can you attend to improve your technical competencies and program delivery for your organization? What committee or council can you serve on to improve the quality of YOUR program? What STEM events can you attend to motivate young people in our communities to pursue degrees in science and engineering? Is there someone in our organization that is seeking mentorship? Is there something you can do to support our veterans, either through hiring practices or wounded warrior programs?

The lists goes on and on, and the possibilities are endless in terms of what all of us can do to improve SAME and our support to the nation. There’s a great book I like to reference that addresses this subject: “212- The Extra Degree: Extraordinary Results Begin with One Small Change” (Sam Parker/Mac Anderson). Their concept is simple: At 211º, water is hot. At 212º, it boils. And with boiling water comes steam. And steam can power a locomotive. The one extra degree makes the difference.

There are many ways we all gain value out of being a member of SAME. If each of us does “just one more thing”, or adds “one more degree” to our efforts or the organization think of the possibilities! The power of 30,000 people aligned in purpose is incredible, and if each of us could bring “just one more person” into the organization that power is multiplied. Thanks to all of you for what you do every day in support of our nation. You are truly Unsung Heroes!
Spring Events in Review

Spring Cleaning...Outdoors

Members of the Tulsa Post took to the outdoors on Saturday, April 14, to volunteer with “Up with Trees” for the spring community service event. The group assisted in maintaining landscaping by cleaning and weeding planters near Riverside Drive and I-44.

*If you are interested in participating in the next community service event, please see the website for any updates regarding the fall event!*

Networking

The Post’s Young Members and Fellows held a networking event on Tuesday, April 17, at Elgin Park in downtown Tulsa.
The March program included several parts and began with a presentation and demo by students from Memorial High School robotics team, the Circuit Chargers (a.k.a FIRST Team 932), on their 2018 robot. “For Inspiration and recognition of Science and Technology” (FIRST) allows high school students the opportunity to design, build and compete their robots in a high energy, two-day competition. The Circuit Chargers compete in the FIRST Robotics Competition each spring. The SAME Tulsa Post was one of many sponsors for the team. Their presentation detailed the capabilities of their robot and the rules of the competition.

The second portion of the program included a presentation by David Flood from the USACE Tulsa District on the use of drones for USACE projects. Project examples and requirements for using drones were the primary areas of discussion. The final presentation was on “Surveying & Mapping with Drones,” by Ben Redding of Continental Mapping, and detail evolving methods in gathering data. This presentation also reviewed the best application of technologies, including high accuracy topographic mapping, remote inspections and high-resolution visualizations.
COMPREHENSIVE SERVICES OVERVIEW
THE QPSE COMMITMENT

QPSE is committed to partnering with our clients to provide the best business solutions for their immediate needs—and for their future. As key drivers for change include advancing technologies and increasingly stringent government regulations, our business model is based on evolution. Growing and evolving our knowledge, skills and services to support our clients is vital to our mission.

QPSE is dedicated to providing projects that are on time and on budget.

Engineering and Design
QPSE offers a full range of engineering and design services that complement our capabilities for a total solution to our clients.

Downstream Plant Services
QPSE’s refining engineering services include the execution of economic and technical feasibility studies, as well as turnkey engineering, procurement, and construction projects with commissioning support.

Procurement and Document Management
QPSE’s Procurement Services is a strong complement to our engineering and construction capabilities. Leveraging vendor relations and a strong financial sheet to bid and purchase project materials is an essential element to project success.

Government Services
QPSE can provide total project solutions for construction, rehabilitation, operations and maintenance services for automated fueling facilities. We also provide the sustainment, restoration and modernization of petroleum, oil and lubricant (POL) systems and infrastructure.

International Project Execution
QPSE provides integrated engineering, procurement, fabrication, project management, construction, and EPC solutions to clients around the world. Working with governments and international clients in diverse industries, QPSE has the capability to design, construct, and maintain multifaceted and challenging capital projects on a global scale.

Construction
QPSE provides construction management services for installations, maintenance repairs, and test services for pipelines and stations.

Project/Program Management
QPSE developed a project management system that adapts to meet the broad range of project requirements for our clients. Our PMP project managers lead projects with optimum execution.

Fabrication
QPSE offers a full range of fabricated products for a variety of industry applications. Our fabricated products are engineered to surpass measurement and fabrication industry standards. We design and build engineered equipment to our client’s specifications.

Specialty Chemical

Environmental Planning and Management
One of the many advantages QPSE provides is a cohesive, construction-minded environmental team. Our qualified specialists provide environmental services with in-depth knowledge of federal, state and local level environmental regulations for projects from the planning stages through construction, operations and closeout.

QPSE
4500 S. Garnett Road, Suite 100
Tulsa, OK 74146
Ph: (918) 858-7620
Info@qpse.com

ISO9001:2015
Certificate No. 47614

www.qpse.com
April’s program meeting was held jointly with the Society of Women Engineers Northeast Section on Tuesday, April 17. Ms. Emily Paice from Invenergy presented “Designing a 2-Gigawatt Wind Energy Facility – the Challenges and Triumphs”. Wind Catcher Energy Connection will be the largest wind farm in the Americas and the second largest in the world once operational. Located in the Oklahoma Panhandle, this 2,000-megawatt facility will power 1.1 million customers in South Central U.S.

Emily Paice is the Senior Project Engineer responsible for the design of the Wind Catcher wind farm. Her presentation detailed the approach to designing a project that will include 800 state-of-the-art GE 2.5 megawatt turbines. Ms. Paice started from the basics of how turbines work. See below illustration.

She then discussed the specifics of designing and optimizing project turbine layout in the Wind Catcher Energy Connection project, advising meteorological campaign strategy and analyzing wind resource data, modeling energy production, and maximizing value through balance of plant activities. Project construction began in 2016, and operations are expected to begin in mid-2020.

Emily received her degree in Mechanical Engineering from the University of Illinois in Urbana-Champaign. She joined Invenergy’s Project Engineering team in 2015 and has worked on multiple wind energy projects prior to joining the Wind Catcher project team. Emily is also an active member of the Invenergy Women’s Network and is on the Board of Directors of the Chicago Chapter of Women of Renewable Industries and Sustainable Energy (WRISE).
April Lunch Program Sponsor

Creating Value

through permitting, planning, design, construction and operations.

401 South Boston Ave., #330
Tulsa, OK 74103
Phone: 918.921.6050

www.jacobs.com
May’s program meeting on “Building for the USAF KC-46A Mission” was presented by Jeremiah Smith, Program Manager at the U.S. Army Corps of Engineers – Tulsa District (USACE Tulsa). The presentation provided an overview of the KC-46A Tankers mission program at Tinker Air Force Base (AFB) located in Oklahoma City, Oklahoma and at Altus AFB in Altus, Oklahoma.

ABOUT THE AIRCRAFT
The KC-46A is a new aircraft which will increase the air force’s in-flight refueling capabilities. While its primary use will be as a tanker, its also has the capacity to transport cargo and passengers.

TINKER AIR FORCE BASE
The KC-46A Tanker Sustainment Campus, located on the south side of Tinker AFB, is currently being prepared for the arrival of the new KC-46A aircraft which is scheduled to arrive in a few months. Portions of the site are located on Tinker AFB and outside Tinker AFB proper and is secured with new fencing surrounding the perimeter and an access control entry point.

The new campus complex at Tinker AFB will provide the needed space, operations, and facilities for the new KC-46A aircraft and is made up of several new buildings that include multi-bay aircraft depot maintenance hangars, aircraft fueling facilities hangar, software innovation labs, engine test facilities, and new ramp infrastructure. It will be home of the maintenance, repair, and overhaul operations for the new aerial refueling tanker. An estimate of 1,300 jobs will be generated at the campus.

ALTUS AIR FORCE BASE
Altus AFB operations currently includes training for the C-11 Globemaster III and KC-135 Stratotanker air crew. The base’s preparation for the KC-46A aircraft includes expansion of current flight training for the new aircraft controls, features, and handling. Implementations of a new aircraft Flight Training Unit (FTU) simulator facility; a fuselage trainer facility; and a Flight Training Center (FTC) addition to the existing FTC facility to house a high bay, Weapon System Trainer (WST) and Boom Operator Trainer are underway at the base.

There are only a handful of bases throughout the United States who were selected to participate in the KC-46A program, and the USACE Tulsa District is proud and enthusiastic to have been selected to provide, manage, and maintain not one but two of the selected locations.
Olsson Associates offers comprehensive engineering and design solutions for complex, multi-disciplinary infrastructure projects across the U.S. Established in 1956, Olsson employs more than 1,120 staff members in 26 offices across eight states.

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RESILIENCE CORNER

RESIST—PLAN, PREPARE, PRACTICE

As described in the Spring 2018 newsletter, one of the measures of resilience is how capable a community, group, or individual are to resisting the effects of an adverse condition, whether from natural or man-made disaster situations. We discussed the importance of preparedness planning to resist those effects, starting with hazard evaluation and risk identification. In this newsletter, we will look at creating an emergency response plan and some resources available for family, business, and community emergency planning.

EMERGENCY RESPONSE PLAN

Emergency response plans are created to ensure the preservation of life and the reduction of property damage and economic loss. Once you review the hazards and identified risks within your community, the next step is to identify tasks to protect people and the most vulnerable assets/operations. All plans should include lifesaving instructions, critical contact information, and tasks to complete before, during, and after a disaster event. Be sure to consider people, systems, data, and finances. Many cellphone apps and document templates are available to help step you through the planning process and to organize your information. See the “RESOURCES” heading below.

PRACTICE THE PLAN

No plan is effective without practice. Set-up exercises and drills to test the effectiveness of your plan. Do key players know their roles in responding to emergencies? Are emergency checklists clear and logical? Is emergency contact information readily available? Are backup power, communication, data and life-support systems properly maintained and functional? Are emergency response kits stocked and do people know where to find them? Do people know evacuation routes or where to find emergency shelter? Review and revise your plan as needed and at least every six months.

RESOURCES

The Disaster Resilience Network is a Tulsa-based, non-profit dedicated to facilitating the development of resilient communities. Visit their website at www.disasterresiliencenetwork.org.

Emergency Planning mobile apps to checkout:

- Business – Open for Business-EZ: www.disastersafety.org
- Community – EOC Ready: www.eocready.com

For more information on resiliency, visit the national SAME Resilience Committee page: https://www.same.org/Become-Involved/Committees-Councils/SAME-Resilience-Committee

Resources for this article:

We are always looking for new ways and ideas to share information with our members and stakeholders about resiliency for our businesses and our infrastructure. Anyone who would like to be a part of the Resilience Committee, or if you have suggestions for the newsletter, please email Ms. Brooks: ebrooks@all-llc.com.

About the Author:
Emelia Brooks has served as the Chair for the Resilience Committee for the SAME Tulsa Post since 2017. She is an Environmental Engineer for ALL Consulting in Tulsa and also serves as a Civil Engineer Officer in the Oklahoma Air National Guard. Besides her engineering education, Ms. Brooks holds a degree in Emergency Management and has great interest in helping communities prepare for and recover from both natural and manmade disasters.
Meet Emmett Reedy, Tulsa Post Young Member Chair

Emmett Reedy joined Benham Design, LLC in 2016 after graduation from Oklahoma State University Institute of Technology with a bachelors in Civil Engineering Technology. He has worked in the Civil/Site department under John Bean for the past two years on various projects involving gun ranges, military bases, road/bridge improvements and rehabilitation, as well as border wall replacements to name a few.

In addition to being the Young Member Chair for S.A.M.E for the Tulsa Post, he is also the Fun Committee Chair for the Benham Civil Department. He is a Sigma Nu alum from the Nu Alpha chapter based out of the University of Arkansas at Fort Smith.

Emmett has been happily married to his college sweetheart, Jenny, for the past five years. From the start, they have enjoyed traveling to new places and experiencing different cultures, always looking for the next adventure together.
High School Scholarships

SAME 2018 Justin Noyes Scholarship Recipients

The Tulsa Post of the Society of American Military Engineers (SAME) is pleased to announce the recipients of the Justin Noyes Scholarships ranging from $1,500 to $2,000 ($6,000 total) to senior high school students who intend to earn a degree in engineering, biological science or physical science. The Tulsa Post of SAME also continued the award of a renewable scholarship, a 4-year scholarship, at the $6,000 level ($1,500 per year for four years).

**Recipients**

Alejandro Flores—Booker T Washington High School  
Carter Guretzki—Bixby High School  
Joban Zepeda—Booker T Washington High School  
Rhett Phillips—Owasso High School (Renewable Scholarship)

*These annual scholarships are in honor of Marine Sergeant Justin Noyes, an American Hero, who fought and died while serving our country in Fallujah, Iraq. Named for a remarkable young man who was fiercely dedicated to the service of our Nation, the scholarships recognize students whose accomplishments; associated with scholastic abilities, leadership and love of country; are honored by SAME and mirror the achievements of Sergeant Noyes.*

**Continuing Renewable Scholarships Recipients**

Blake Mattioda  
Jessica Parker  
Noah Anderson

**Will Rogers JROTC Cadet Scholarship Recipients**

*Photographed Left to Right:  
Betania Saucedo*  
Chloe Wadley (BN Commander)  
COL. Hussin  
Emily Baird*  
Christina Martinez*  
Alexa Esparza*

*Indicates Scholarship Recipient*
As a courtesy to the TulsaTech Drafting/CADD program administrators, Adam Smith volunteered to lead a dialogue with current students regarding their current and future roles in the CADD/Drafting Industry on May 17th 2018 at the USACE SWT District Office.

Topics of the dialogue included students’ understanding of the educational and program requirements for completion/licensure, short- and long-term career planning, current USACE CADD Technician career feedback and industry evolution, 3-D CADD modeling presentation, Question & Answer session, and ending with some inspiring quotes. Loretta Turner facilitated the coordination with the school, and led the students on a brief office tour.
Tulsa Post Foundation Credentialing Program

The Tulsa Post has a Foundation Credentialing Program to promote the professional development of SAME members. The Foundation Board has established a budget for awards to make in 2018. Professional credentialing is a great way to enhance skills to perform better in the industry in which we serve.

The reimbursements are up to $500 and the program is in place to help support professionals in advancing their careers through credentialing.

The program will support exam prep course, sitting or registration fee reimbursement for credentials, licensures, or certifications which are considered to have an intrinsic value to SAME’s mission and the architectural and engineering professions.

- Initial application deadline is May 1, 2018.
- If there are more initial applications than funds available, the Foundation will rank the applications based on merit using the information in the applications.
- If the funds available are not used from the initial applications, additional applications will be accepted throughout the year and awarded in order of submittal and assuming the applications meet the program requirements. FY18 applications will be accepted until November 30, 2018, or until funds are used.
- Applicants must have taken and passed or plan to take and pass a credentialing exam between October 1, 2017 and September 30, 2018 to be eligible for FY18 reimbursement.

A full list of acceptable credentials, licensures and certifications can be found on the application form. The Application for Reimbursement and additional information for exams and other costs can be found on the website (www.sametulsa.org).
Upcoming Networking Event

You’re Invited to Attend

Joint Networking Event

With the
Oklahoma Structural Engineers Association, Eastern Chapter

Bricktown Brewery

3301 S Peoria Ave, Tulsa, OK 74105

June 21, 2018 @ 5:30 pm

RSVP’s are appreciated but not required for this event!

Email RSVP to
rsvptulsapost@gmail.com

Hope to see you there!
## Membership

### You can benefit from the SAME Formula for Success!

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<thead>
<tr>
<th>Feature</th>
<th>Benefit</th>
<th>Value</th>
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<tr>
<td><strong>Premier professional engineering association in the United States</strong></td>
<td>Connects you with public sector and private industry professionals in architecture, engineering, construction, environmental, and facility management fields</td>
<td>Become involved and take an active role in strengthening our nation’s security and infrastructure</td>
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<td><strong>SAME Leadership</strong></td>
<td>You can make a difference</td>
<td>Do something that makes a positive impact</td>
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<td><strong>Wide Network</strong></td>
<td>Connects you to these people and organizations</td>
<td>Career enhancement and development</td>
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<td>• 25,000 members</td>
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<td>• 1,400 companies and public agencies</td>
<td>Benefit from opportunities that may not otherwise present themselves</td>
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<td>• 110 Posts</td>
<td>Build professional relationships that will last</td>
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<td><strong>SAME Support</strong></td>
<td>Financial support and mentorship of the following charities and programs that help soldiers and their families or mentor leaders in the A/E/C community</td>
<td>Benefit from mentors and have the opportunity to mentor others</td>
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<td>• STEM Program and mentoring</td>
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<td>• Scholarships for college students</td>
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<td>• MATHCOUNTS regional competition</td>
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<td>• Sponsorships for high school students to attend Navy, Army, Air Force, or Marine Corps engineering and construction camps</td>
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<td><strong>Membership</strong></td>
<td>Connect with top engineering officials</td>
<td>Have the pulse of the industry and most up-to-date opportunity information</td>
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<td>• Learn about upcoming projects</td>
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<td>• Receive the Military Engineer magazine</td>
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<td>• Stay current of DOD and A/E/C related issues</td>
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<td>• Discounts for SAME events, seminars, and courses offered by SAME Strategic Partners: CMIA</td>
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<td>• DBIA</td>
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<td><strong>Sustaining Membership</strong></td>
<td>Sustaining Member Only Benefits</td>
<td>Enhanced networking and relationships</td>
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<td>• Five openings for individuals as your members representatives (one must be in the Young Member category, age 35 or younger)</td>
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<td>• Access to Members Only section of the SAME website</td>
<td>Better business opportunities</td>
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<tr>
<td>• Receive a copy of the annual SAME Directory of Member Companies and Public Agencies</td>
<td>Continuous information sharing</td>
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<td><strong>Tulsa Post Membership</strong></td>
<td>Assured access to Post luncheon meetings</td>
<td>More access</td>
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<td>• Discount on Post events</td>
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<td>• Up-to-date information on Post and Post activities</td>
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For membership information, please contact:

Gene Snyman  
(918) 669-7010  
Gene.snyman@usace.army.mil  
www.sametulsa.org
Upcoming Tulsa Post Programs

2018 Program Theme

Building for the Future. Our country is experiencing an economic renaissance with record stock prices, low unemployment and rising wages. Additionally, the recently signed Federal Tax Reform Bill will result in increased investment in the United States. The Tulsa Post of SAME will examine how engineers, planners and scientists are building for the future here in the TEXOMA region with new infrastructure projects and rehabilitations/modifications of existing projects to capitalize on and further fuel this economic revival.

July Program Meeting:
No program for this month.

August Program Meeting:

Topic: Field Trip - Gathering Place
Sponsor: Mead & Hunt
Date & Time: TBA
Place: Gathering Place

September Program Meeting:

Topic: USACE Hydro Rehabilitation Program
Presented by: Dan Bruegganjohann, Tulsa District USACE
Sponsor: Benham
Date & Time: September 18, 2018 @ 11:30 am
Place: Tulsa District USACE Office—1st Floor Auditorium, CityPlex Tower

For a full calendar of events and programs, please see the SAME Tulsa Post Website: http://www.sametulsa.org/

The mission of the Society of American Military Engineers 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.
SAME—Tulsa Post Facebook Page!

Go “like” us, and stay current as events unfold!

http://www.facebook.com/pages/SAME-Tulsa-Post/128934930938

Real TiME Newsletter & Real TiME Podcast

https://www.same.org/realtime
https://soundcloud.com/same-275233286/tracks

TME
The Military Engineer Magazine

http://www.themilitaryengineer.com/

SAME National’s weekly digest blog “Bricks and Clicks” at
http://sameblog.org/

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