

Tulsa Engineering Foundation – Activity Reports
Announcements, Upcoming Events, and Contact Information
FY22 – 2nd Quarter Meeting January 20 2022

Engineering Organization news and announcements are in the first part of the report. Contact information is located in the back of the report under “Organization Contacts”.

Tulsa Engineering Foundation: <https://tulsaengineer.org/>

Executive Committee Meeting: - The meeting minutes are available upon request from kvanschoyck@ck-engr.com

Engineer’s Society of Tulsa Mission Committee / Engineers Night Out

Mike Miller, mllrmnd@aol.com 918-230-0999

Next ENO Event: Thursday January 27th 5:30 to 7:30 pm at Bonefish Grill, 4651 W. Kenosha Street, Broken Arrow, 74012. It is being sponsored Keith McNinch, Pipeline Consultant; Tim France, Rimkus; Derek Gates, DW Gates Engineering; and Bruce Patterson, Solutions Engineering. A maximum of 55 attendees will be allowed.

Barbara Wollmershauser has recruited Clayton Moreno to help with emailing ENO announcements to TEF member organization members. Mike and Clayton have taken a short training course on using the new Relevant Tools software for this purpose. And, Mike has applied for and received a Canva Pro account at no charge for TEF, done a 2 day training, and with Cara’s help is creating social media posts for the ENO Events.

Despite trying to retire, Cara Cowen Watts continues to do an outstanding job coordinating EST-ENO (Engineers Night Out) events. Cara, Barbara and Mike have been trying to create a calendar for the next 12 months and offer sponsors opportunities, using these established guidelines for the ENO: [ENO Guidelines are shown at the end of this report on a separate page.](#)

TEF Scholarships

Scholarship Committee members are: Christina Jackson, Nancy Doutey, Ashley Lastinger, Ryan Piece, and Barbara Wollmershauser.

Freshman applications are due February 1, 2022. Undergraduate applications are due June 1, 2022.

American Society of Mechanical Engineers (ASME Mid-Continent Section)

Dr. Srinivas Kolla, srinivas.kolla@okstate.edu 918-594-8381

2nd ASME Mid-Continent Undergraduate/Graduate Technical Innovation Awards – Due date January 31, 2022

Who needs to apply for this award?

- Any undergraduate or graduate members of ASME student section who came up with an innovative solution or an idea

- University of Tulsa, Oral Roberts University, Oklahoma State University-Tulsa students, Tulsa Community College are welcome to submit.

How can you win the Innovation award?

- You need to provide an abstract describing
 - your innovative solution for a school project or outside school project
 - What stage of project you are in? (i.e., feasibility, mockup (demo or testing), engineering analysis, market analysis)
 - What is the advantage of your solution compared to existing products/ideas?

Why does it matter to apply?

- This is the second year ASME Mid-continent is acknowledging and offering this award. The Award is recognized and offered from ASME Mid-Continent section offering a special recognition to those who seeks innovation solutions.

The winner of the award will:

- Present to ASME professionals (Tentatively: Presentation on March 10th, 2022- broadcasted live on zoom)
- Receive a certificate from ASME
- Get an opportunity to brainstorm with ASME professional to advance the idea
- Get recognized as the winner in ASME media platforms
- May receive small monetary prize

How do you submit?

E-Mail abstract as an attachment to Dr. Srinivas Swaroop Kolla (srinivas.kolla@Okstate.edu) "ASME Mid-Continent Section Technical Undergraduate/Graduate Abstract-2021" in the subject line. Please use an author name in the abstract file name, such as "firstname-lastname-Abstract-2021.doc." ABSTRACT FORMAT AVAILABLE FROM DR. KOLLA.

MATHCOUNTS

Gaylon Pinc gppinc@pmgtulsa.com 918-344-9400

MATHCOUNTS will be holding all regional competitions online again in 2022. These will follow the same AoPS online platform used in 2021. Oklahoma MATHCOUNTS will host an in-person 'Bonus Regional Competition' on Friday, February 11, prior to the Thursday, February 17 online regional competition. Our Bonus Competition will be hosted by the University of Central Oklahoma, Edmond.

The in-person State MATHCOUNTS Competition is scheduled for Saturday, March 5th and will be hosted by the Oklahoma City University.

The National MATHCOUNTS Competition, currently in-person, is scheduled for May 7-9 in Washington, D.C.

We are also assisting with Mock competitions at St. Pius X (January 21) in Tulsa and Bishop Elementary School in Lawton (February 5th).

Volunteers are always welcomed.

Engineering Alliance for the Arts

Daniel McClain Daniel.mcclain@wallace.design 918-230-6034

Engineering Alliance for the Arts (EAA) is a unique in-classroom engineering program. EAA was founded in the Bay Area more than 20 years ago. The 10-week program meets once a week and uses the engineering design process to build a bridge meeting specific requirements. EAA mission is to provide students with the experience of working with a design professional inside

the classroom and create an opportunity for the students to learn a wide variety of skills, including problem solving, team building, developing presentations, and written and verbal skills.

Daniel McClain is working with OSEA (Oklahoma Structural Engineers Association) to coordinate 8 – 10 engineers and architects to work with 2 classes of students. The student impact offers students insight into the structural engineering profession while inspiring and energizing engineering professions.

EAA will host two 10th grade science classes at Union High School. Daniel has 8 confirmed volunteers. He would like at least ten or more. Training will be next week in the evening. Approximate start time for the program is February 11. Please contact Daniel if you are interested.

Tulsa Regional STEM Alliance (TRSA)

Emily Mortimer Emily.Mortimer@TulsaSTEM.org 918-779-4910 and Levi Patrick

TRSA is launching a second STEM hub at the Tandy Family TMCA located at 5005 S. Darlington Ave., Tulsa, OK 74135. You may contact them at info@TulsaSTEM.org

Tulsa Regional Science Fair is open to public, private, and homeschool students who reside in Tulsa and Creek Counties. There are two divisions: Junior Division (grades 7-9) and Senior Division (grades 10-12). Registration is open, which means students who wish to enter do not have to participate in a school science fair first. If you are interested in judging, please contact emily.mortimer@tulsastem.org Judging will be virtual sometime in mid-February. Submission deadline is Friday February 4, 2022.

SeaPerch: We are the regional competition for the SeaPerch underwater robotics competition. Teams build and compete in obstacle courses, retrieval missions and judge interviews to advance to the national competition. We are in need of judges. We plan to schedule SeaPerch for late February or early March at Tandy Family YMCA. If you are interested in judging, please contact emily.mortimer@tulsastem.org

Introduce a Girl to Engineering Day

Barbara Wollmershauser (for volunteer mentors) wollmersh@aol.com 918-906-7929

Introduce a Girl to Engineering is a series of workshops hosted by Discovery Lab in celebration of 2022 Engineers Week. Girls and their adult mentors are invited to work together to solve engineering challenges during one of their workshop sessions that showcase different types of engineering and the problems they solve. This event is for girls age 7-12 with an adult role model or mentor.

Engineering mentors are needed. You can volunteer for just one session (approximately 3 hours) or several. The schedule will be available soon. Contact Barbara if you are interested in helping.

Workshops will be held Saturday, Feb. 26th and Sunday, Feb. 27. More information will be available on the Discovery Lab website under Special Programs if you are interested in register a youth and adult as participants.

Institute of Electrical & Electronics Engineers (IEEE)

Thomas Henderson thomas.henderson@tulsacc.edu 918-595-7492

IEEE Tulsa Section Virtual Poster / Video Contest - Due on or before April 15, 2022.
Judging will conclude by Friday, April 22.

Students from all colleges and universities in NE Oklahoma, including Stillwater, which are part of the IEEE Tulsa Section geographic area are welcome to submit an electronically generated poster and presentation uploaded to You-Tube; 2 minutes maximum. All materials must be uploaded by **April 15th**. Due to the current COVID situation, we will again, like last year, only host this event virtually. We will look at providing an awards and mixer ceremony the last week of April if the current situation changes.

The Tulsa Area Student Research Poster Competition is sponsored by the IEEE Tulsa Section. It encourages the development of IEEE student technical communication skills and affords the local students an opportunity to present their research in a friendly virtual environment. IEEE Tulsa professionals will judge the posters and videos about their research virtually and post feedback by April 26th.

Please contact Tomas Henderson for details (info above).

International Society of Automation (ISA)

Dave Eskridge Dave.Eskridge@vectorcag.com 918-210-3309

Mike Miller, mmlrmnd@aol.com 918-230-0999

We successfully merged the former Tulsa and OKC Sections to the new Greater Oklahoma section and recovered the assets of the former Tulsa Section. We have had three member meetings, (2 virtual and 1 social in person), and have meetings planned and calendared for 2022.

Activities / Comments:

Our first meeting was a joint meeting with the Houston Section, featuring a virtual speaker on the Topic of Interface Level Measurement

Our second meeting was held at American Solera Brewing, a networking event, we had about 15 people attend.

Our third meeting was virtual, the topic was Training Gas Measurement Technicians.

An emphasis for 2022 will be training:

Our first meeting will be a speaker on Project Management, our second meeting will feature a speaker on Cyber Security for instrumentation, and the third meeting will be a weeklong Certified Controls Systems Technician Training course.

Tulsa University (TU)

Marie Moran Marie-Moran@utulsa.edu 918-906-9096

TU and Fab Lab Tulsa will be creating an exciting partnership with the launch of a new class in Fall 2022 called Design Academy. The lectures will take place at TU and the labs will take place at Fab Lab Tulsa's new space at 5th and Lewis.

The University of Tulsa is launching a TU Design Center in spring 2022. The TU Design center is created to introduce students to design thinking and building. It consists of design courses, a proposed design minor (not approved yet), a branch of the student organization Design for America, a new on-campus maker space open to all students, a partnership with Fab Lab Tulsa, and an advisory board of contributors from inside and outside TU. The date for the launch event will be announced soon. Contact Marie Moran with questions.

Tex Richardson Engineering and Science Guidance Award

This is awarded annual to an engineer and educator in recognition of their outstanding contribution of encouraging youth to pursue engineering and technical fields.

To nominate an individual, please provide the following: Name of nominees, a paragraph explaining why you wish to nominate this individual, the individual's contact information (company or school, mailing address, email, phone) and your name, email and phone.

Nominations must be received no later than February 1. Email to info@tulsaengineer.org or mail to TEF, PO Box 703065, Tulsa, OK 74170.

More information and prior recipients are at <https://tulsaengineer.org/about-2/guidance-award/>

Organization Contacts:

American Concrete Institute (ACI)

Michael Schultz Mike@eagleredimix.com 918-688-8061

American Indian Science and Engineering Society (OPC AISES)

Cara Cowan Watts, PhD, tulsapierdrilling.com office: 918-732-9678
Website: opcaisses.org

American Institute of Chemical Engineers (AIChE)

Christina Bishop Jackson, PhD, christina.jackson@honeywell.com

American Public Works Association (APWA):

Tommie Heltcel, tommie.heltcel@ads-pipe.com 918-892-0739

American Society of Civil Engineers (ASCE-Tulsa)

Jessica Prince Jessicap@estinc.com 918-613-3360

American Society of Heating Refrigerating & Air Conditioning (ASHRAE)

Claire Farr cfarr@esok.com 918-279-6450

American Welding Society (AWS) Ray Wilsdorf, raywilsdorf@olp.net 918-369-5824

Construction Specifications Institute (CSI) Jack Vest jackvest@icloud.com 918-633-4726

Fab Lab Tulsa: Brian Carr brian@fablabtulsa.org 918-779-6025

FIRST LEGO League (FLL) Scott Taylor, P.E. staylor@firstpartners.org
FIRST LEGO League Program Delivery Partner, Oklahoma
Oklahoma Science & Engineering Foundation Director

International Society of Automation (ISA)
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National Society of Black Engineers (NSBE) & Kappa Tau Sigma Chapter
Andre Butler andre.butler@neo.edu 580-647-2084

ORU Pavel Navitski PavelNavitski@ORU.edu 405-334-1835

Oklahoma Society of Professional Engineers (OSPE)
Mike VanSchoyck vanhome1@cox.net 918-437-8220

OSU-Tulsa Dr. Jacob Bair jbair@okstate.edu 918-594-8627

Society of American Military Engineers, Tulsa Post (SAME)
Chris Strunk cb.strunk@gmail.com <http://www.sametulsa.org/> 918-699-7137

Society of Hispanic Professional Engineers (SHPE)
Chriss Chavez gichic7@gmail.com 918-408-4058

Society of Petroleum Engineers (SPE)
Ashley Lastinger AshleyJorishie@gmail.com 918-606-2416

Society of Women Engineers (SWE)
Kristina Wadley Kristina.Wadley@okalliance.com 918-841-7403
Website: www.tulsaneo.swe.org
Facebook: Tulsa Society of Women Engineers – SWE@TulsaSocietyOfWomenEngineers

STARBASE David Stacy, david@starbaseok.org 918-833-7757

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Tulsa Regional STEM Alliance (TRSA)
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Tulsa Tech
Sam Ramsey Sam.Ramsey@TulsaTech.edu 918-828-1001
Director of the Lemley Campus

Following are the guidelines and the invitation to circulate to your member companies who may be interested to sponsor an ENO.

I understand you would like to sponsor an Engineers' Night Out event which involves paying for the location rental and food which varies from \$500.00 to \$1,000.00 or more. Drinks are on each individual who attends, so we ask the facility to have a well-stocked bar and staff to accommodate 50 to 100 people. We are planning for 80 as we renew ENO.

To fully utilize your sponsorship, I would consider the following at the event.

- 1. Signage - TEF ENO Committee does do a small sign at the sign-in table and does provide you with a copy of those who signed in as attendees.**
- 2. Business cards - You may leave them at the sign-in table or have a table with just brochures, push cards, fliers, etc. about your company or even show and tell if you manufacture parts.**
- 3. Staff - Work the room! We all do. That is a valuable part of the event is the business connections.**
- 4. Giveaways/Raffle Items - If you have the budget, our attendees love swag!! Have something to give everyone who attends or bring a few really nice items and we can do tickets at the sign-up for you and then draw for those items. Engineers appear to be thrilled with the raffle drawings in the past.**
- 5. Introductions - We will do a brief introduction and have you waive at everyone and receive your round of applause for feeding us (and to let folks know who to stop by and shake their hand and say thank you before they leave!). No speeches. Just connect and network with your fellow nerds!**

ENO is generally the fourth Thursday of each month (except November and December) from 5:30 pm to 7:30 pm. We do not meet in December and we meet earlier in November to avoid the holidays.

2022 Suggested Location Options with Outdoor Seating or Outdoor Areas:

Waterfront Grill
120 Aquarium Drive
Jenks, OK 74037
<https://waterfrontgrilljenks.com/>

Pearl Beach Brew Pub
418 South Peoria Avenue
Tulsa, OK 74120
<https://www.pearlbeachbrewpub.com/>

Dead Armadillo Craft Brewing
1004 East 4th Street
Tulsa, OK 74120
<https://www.facebook.com/DeadArmadilloBrewery/>

Golf Suites, Jenks Riverwalk