We had a great time at the inaugural Tulsa Flight Night last September, and we hope you did, too.

More importantly, together we raised over $361,000 to fund science, technology, engineering and math (STEM) education in Northeast Oklahoma. The first Flight Night was an overwhelming success, thanks to hundreds of generous supporters like you, dozens of enthusiastic volunteers and an operations team that kept our direct expenses to only a fraction of dollars raised.

Thank you for your belief in our mission, and thank you for your donation. You have our sincerest gratitude for sharing our vision of giving wings to the 17,000 Oklahoma students through the innovative programs of our beneficiaries: Tulsa Regional STEM Alliance and Fab Lab Tulsa.

Sincerely,

Meredith Siegfried Madden  
T. Hastings Siegfried  
J. Terrell Siegfried  
Bailey J. Siegfried

CHECK IT OUT! Tulsa Regional STEM Alliance (TRSA) and Fab Lab Tulsa scored $361,000 for STEM education in Oklahoma.
Thank You! Thank You!

Muscogee Creek Nation
Charles & Lynn Schusterman Family Foundation
Asphalt & Fuel Supply
D&L Oil Tools
Jackie Cooper Porsche
NORDAM
Omni Air Transport
ONE Gas
ONEOK
Gallagher
Fiber Pad, Inc.
John & Denise Redmond
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Matrix Service Company
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ARC - Advanced Research Chemicals
Aerotek
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Bama Companies
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Conner & Winters, LLP and Steven W. McGrath
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Grant Thornton, LLP
Hexcel
Imperial
JP Morgan Chase
The Mayo Hotel / Brickhugger LLC

Pelco Structural, LLC
The Persimmon Group
St. John Health System
Sullivan and Company, LLC
Talmadge Powell Creative
Tulsa Plastics Co.
Valley National Bank (Bob, Fran, Jess & Tom Biolchini)
Zeeco

Tulsa Flight Night 2014 Results:
$361,000 for STEM Education

MOBILE FAB LAB See pages 3-4
Funds Allocated $162,745
Students Reached 6,000

TRSA STEM PROGRAMS See pages 3-4
Funds Allocated $148,500
Students Reached 11,000

TRSA OPERATIONS
Funds Allocated $50,000

STUDENTS INSPIRED 17,000*

*Outreach numbers projected as of March 2015

Save the Date for Flight Night 2015: Thursday, September 17

Don’t miss your chance for a fun night out to benefit Oklahoma’s students and future workforce: Join us at summer’s end for the second annual Flight Night, featuring stunning outdoor aerial entertainment and an exciting, all-new indoor show designed to amaze.

Also, watch for 2015 beneficiaries and projects to be announced soon as we continue our focus on STEM education outcomes.

TF
Your support is key to the equation
Flight Night supporters like you empower students to explore the STEM fields through access to tools and events that both inspire curiosity and bring ideas to life.

2014 STEM Exploratorium
One week before the first Flight Night, 1,300 middle- and high-school students descended on Tulsa Tech’s Riverside campus for the first annual Exploratorium, a half-day of interactive, STEM-career-focused activities. Created and powered by Flight Night,™ the program was designed to inspire creativity and learning. Survey results indicate the event had a positive influence on student interest in pursuing STEM careers. For 2015, students requested more time to explore.

At left, NORDAM’s Joey Gensicke teaches students about designing radar-protecting radomes for aircraft.

First Quadcopter Competition for Oklahoma Students
Funds from our 2014 event are making it possible to produce Oklahoma’s first quadcopter challenge, a competition that rewards student-built flying machines for performance in maneuverability, speed and retrieval courses.

This spring, ten teachers will be trained to provide summer camp instruction for 20 student teams as they learn to design, build, program and fly their own quadcopters, with a thrilling aerial competition to follow in the fall.

STEM Access Programs
Tailored for students in grades K-12, STEM Access programs encourage creative thinking, develop problem-solving skills and build awareness of STEM careers.

A total of 20 of these exciting programs supported by Flight Night are set for 2015, and combined with the other funded events are projected to reach some 10,000 students in northeastern Oklahoma.

For a list of upcoming STEM Access programs, see “Events in the Works” on page 4.

Powered by Flight Night™ - Mobile Fab Lab
BY NATHAN PRITCHETT, Fab Lab Tulsa executive director
Since the opening of Fab Lab Tulsa in 2011, we’ve seen tremendous growth in our STEM education programs that serve a variety of stakeholders, including schools, after-school programs, youth organizations and families. That growth is expected to skyrocket again this summer with the roll out of our new mobile fab lab.

The addition of a first-of-its-kind, state-of-the-art mobile fab lab will provide an opportu-
Mobile Fab Lab Gets Rolling this Summer

...CONTINUED from PREVIOUS PAGE

nity for even more students to experience hands-on learning of STEM subjects. With this flexible new lab, we’ll bring the most exciting pieces of digital fabrication equipment, including 3D printers, laser cutters and a 3-axis mill, directly to schools and classrooms.

One of only a small handful of mobile fab labs in the world, the Fab Lab Tulsa version has separate units for each piece of equipment, transported in a custom-built, high-tech trailer. It is entirely unique in that these units are easily unloaded and rolled into a classroom for hands-on programs or an auditorium for larger demonstrations, and the trailer converts into a presentation stage or workshop, where students may participate in STEM programs and utilize equipment.

Our experience shows the project-based approach to learning, combining practical curriculum with technological tools, enhances the applied problem-solving and critical-thinking skills of students. This is crucial in preparing our youth for tomorrow’s workforce, where they’ll need the ability to utilize technology as they innovate and develop new solutions.

We’re also excited to invite math, science and art teachers to join us this summer for a week of hands-on FabEd professional development.

FabEd is a professional development program created by a partnership between the Fab Foundation, TIES (Teaching Institute for Excellence in STEM) and local fab labs across the globe to introduce educators to the technology and resources available in a fab lab, as well as how to integrate those tools into their curriculum and classroom instruction.

Teachers will experience first-hand the engineering design process, the broad role of technology in our lives, how to use 2D and 3D design software, and methods to integrate Fab Lab Tulsa’s problem-based learning opportunities into their classrooms.

TF