

OKLAHOMA INNOVATIONS - OCAST'S OFFICIAL NEWSLETTER

SPRING 2016 - [Watch the Video Edition](#)

INNOVATIVE OKLAHOMA COMPANIES FEATURED IN THE OKLAHOMAN

- [1980s oil bust sparks career in biotechnology for local lawyer](#)
 - [TechTrol provides high-tech element to life in rural Pawnee](#)
 - [Well hidden Glenndyne Design serves global customer base with custom cycle fabrication](#)
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OCAST INTERNSHIP PROGRAM TO INCLUDE GRADUATE STUDENTS



OSTRaD (Oklahoma Science and Technology Research and Development), the governing board of directors for OCAST, at the March 2016 board meeting approved the expansion of the Intern Partnership program to include graduate students.

The modernization comes in response to customer requests and will begin with the 2017 funding cycle.

OCAST INTERN SUCCEEDS IN PAPER COMPETITIONS

Tyler Helps, an OCAST intern placed at (SNT) Spiers New Technology in Oklahoma City, won the local IEEE (Institute of Electrical Engineers) paper competition.

He has also placed second at the area paper competition which qualifies him to compete in the regional competition in Kansas City, April 8-10.

Congratulations to this outstanding intern for his hard work at these challenging competitions.

OCAST RECEIVES COMMUNITY RECOGNITION AWARD

OCAST was awarded the Community Recognition Award during the 2016 i2e OKBIO Summit and BioScience Awards held at Embassy Suites in Oklahoma City.

The award recognizes an individual or organization for making significant contributions to Oklahoma's bioscience industry.

Other finalists included ARL Bio Pharma/DNA Solutions and Dunlap Coddling PC, both located in Oklahoma City.



OKLAHOMA DEFENSE CONTRACT SPENDING IMPACT WEB PORTAL AND ECONOMIC IMPACT MODEL INTRODUCED

Oklahoma DoD Procurement Economic Impact Evaluation Model

research and planning capability that documents the economic impact of Department of Defense contracting in Oklahoma.

The Oklahoma Bid Assistance Network (OBAN) and Oklahoma State University Institute of Technology (OSUIT) have introduced the ODCSI Web portal, a newly developed

The Web portal is designed to assist economic and workforce development professionals from public, private and nonprofit sectors in assessing changes in DoD outlays and to identify trends by industry sectors and locality.

The Economic Impact model will be used to support economic development outreach efforts for business attraction, business retention and expansion. Data on supply chain leakage will help focus resources on at-risk industries and occupations.

Some of the economic development tools that are available are business retention, target sector marketing and expansion. Guidance is also available for grant writing, informing elected officials, informing the general public and policy and workforce.

To view the portal, navigate to <http://go.osuit.edu/defense/> and click on "Defense Impact Analysis" tab. For more information, please contact Ken Boykin, Program Manager – DoD Programs, OSUIT: 918-293-5020 or ken.boykin@okstate.edu.

SBIR ROAD TOUR – SEEDING AMERICA'S FUTURE INNOVATIONS

The SBIR Road Tour "Seeding America's Future Innovations" is a nationally focused outreach initiative targeting advanced technology communities, including women-owned and minority-owned small businesses in states that have underutilized funding opportunities through these programs. Annually, the SBIR and STTR programs provide \$2.5 billion in early stage funding to small businesses in the STEM fields.



The Oklahoma stop will be hosted by OCAST in support of technology-based entrepreneurship and will provide attendees a face-to-face opportunity to talk directly to federal agency program managers and decision makers from many agencies, including the: National Science Foundation (NSF), Department of Energy (DOE),

Department of Defense (DoD), National Aeronautics and Space Administration (NASA) and the Health and Human Services Administration (HHS-NIH).

The Oklahoma stop on the tour will be **Thursday, June 30 and Friday, July 1**. Small technology firms, innovators, scientists or researchers seeking more information on the SBIR Road Tour, including a listing of all states to be visited and agency participants, should go to www.sbirroadtour.com.

For more information about SBIR/STTR programs, please go to www.sbir.gov.

SCIENCE AND TECHNOLOGY MONTH WRAPS UP

Science and Technology Month is celebrated during the month of April. OCAST is recognized as the state's agency for science and technology and an official proclamation was received from the governor in acknowledgment the value of science and technology.

In honor of Science and Technology Month OCAST sent out approximately 1500 award recognitions to junior high and high school students from around the state. These awards were sent to students who completed classes in Science, Technology, Engineering and Math (STEM).

Numerous students were also recognized as being a "STEM Student of Excellence". These students were nominated by their teachers for going above and beyond for their work in the math or science field.

STEM Students of Excellence

Each year during Science and Technology Month, OCAST recognizes students for their work in the science classes. Teachers are asked to nominate students who go above and beyond in the classroom so to be highlighted as STEM Students of Excellence.

This year OCAST would like to recognize Blake Winchester at Berryhill High School. In his own words below, Blake describes his individual project.

Blake Winchester, a ninth grader at Berryhill High School tested the negative effects of chemicals on plants. "Six house plants of the same species were put in a room where they all received equal amounts of sunlight and the same temperature.

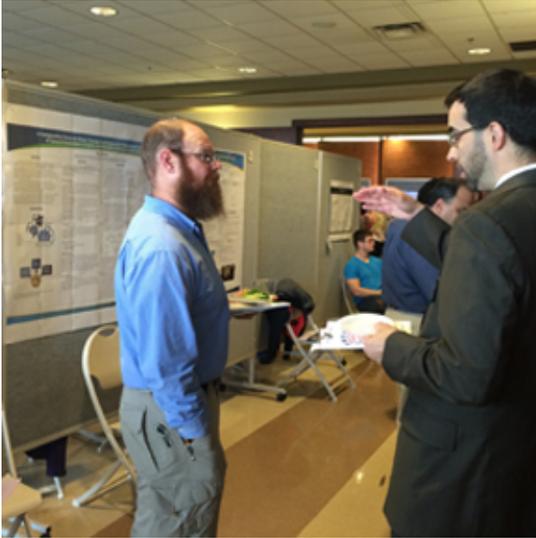
"The control was a plant that would not be watered. Each plant was given a cup of the chosen chemical and ¼ cup of water, except for the unwatered plant. The plants were watered every other day.

"The chemicals used were Windex, dish soap, laundry detergent, bleach and normal tap water.

All of the plants died at the end of the three week experiment except for the plant with tap water and the unwatered plant. Bleach was by far the worst chemical for plants. It corroded the roots."

Congratulations to Blake Winchester for standing out in a crowd of high achieving science and math students.

SWOSU HOLDS 23RD ANNUAL RESEARCH FAIR / NORMAN HOSTS MAKER MOBILE RIBBON CUTTING



Southwestern Oklahoma State University held its 23rd Annual Research and Scholarly Activity Fair on Tuesday, April 19, 2016, from noon to 3 p.m. in the Memorial Student Center.

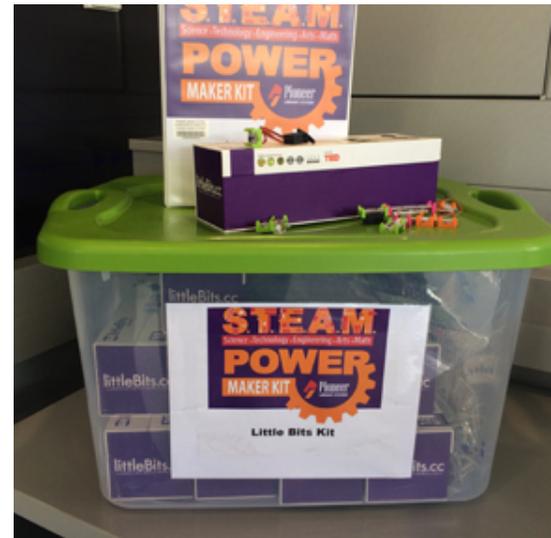
A total of 117 students, faculty, staff and administrative personnel participated by presenting a poster or giving a 15-minute oral/podium presentation. Included in the participants this year were Dr. Andrea Holgado and Dr. Tim Hubin who both previously had funded OCAST projects.

The community, state and local leaders, educators and high school students from across the state were all invited to attend.

OCAST staff also attended the ribbon cutting for a new feature of the Pioneer Library Systems communities, a combination of its maker movement and community outreach. It's called a Maker Mobile, and soon the vehicle will be hitting the road on stops throughout the local communities that make up the library system.

The Maker Mobile was introduced at a ribbon cutting at noon Friday, April 15, at Norman Public Library West, in an event co-hosted by Pioneer Library System and the Norman Chamber of Commerce.

The Maker Mobile will bring STEM (science, technology, engineering and mathematics) focused programming into communities by bringing it to them. It is a workshop on wheels, made from the frame of a Ford truck and featuring such items as a three-dimensional printer and scanner, CNC mill, laser cutter and laptops, as well as Wi-Fi access and an informational touchscreen television that will allow customers to learn about the library's downloadable collection through OverDrive and many other online features.



OCAST STAFF MEMBER SERVES AS JUDGE FOR COMMUNITY EVENTS



OCAST was honored to have a staff member Mark Ballard serve as a judge at FIRST Robotics and the EPSCoR Research Day at the Capitol recently.

FIRST, which stands for "For the Inspiration and Recognition of Science and Technology," is a nonprofit organization founded in 1989 by Dean Kamen. Kamen is an inventor, entrepreneur and a strong promoter of science, technology and engineering. He is best known as the inventor of the Segway.

Since 2007, the annual Oklahoma FIRST Regional has been held at the Cox Convention Center in Oklahoma City. Teams from across the country compete in the robotics competition designed to pair professionals and young people to solve an engineering design problem and compete.

EPSCoR Research Day at the Capitol is an annual event held in the Oklahoma state capitol rotunda during the legislative session. The event was created to inform the legislature and the public about the high-quality research being conducted at Oklahoma colleges and universities.