Dr. E.K. Jeong, Khanh Nguyen, and Melissa Perez at the Fair

21st Annual SWOSU Research and Scholarly Activity Fair

Southwestern Oklahoma State University’s 21st Annual Research and Scholarly Activity Fair was held on April 15, 2014, in the Student Union Memorial Ballroom. This event gives students the opportunity to present their research and other scholarly activity in poster or podium presentation formats. This year, around 200 SWOSU students and faculty members presented 103 research projects. Many of the presentations have been or will be presented at various organizational events at the state, regional, and national levels.

This year’s fair also featured special musical performances by SWOSU members. Mshal Almaqbal performed two pieces of Saudi Arabian music, and Dr. Richard Tirk and the SWOSU Trumpet Ensemble performed “Fanfare for Argestes.” Members of the SWOSU Trumpet Ensemble included: Bethany Peyton, Brittany Carter, Andrew Carlson, Jakub Chermack, Mikela Connella, Jacquie Cox, Austin Hardman, Benjamin King, Joaquin Martinez, Ryan Meek, Davison Nguyen, and Tommy Smith.

The disciplines represented at this year’s fair are as follows: Accounting, Computer Sciences, and Entrepreneurship; Art, Communication, and Theatre; Biological Sciences; Chemistry and Physics; Engineering Technology; Kinesiology; Language and Literature; Music; Nursing and Allied Health; Pharmaceutical Sciences; and Psychology.

Students participating in the poster

SWOSU faculty who participated with the poster and podium presentations, either as sponsors or as presenters, included: Dr. Lisa Appeddu, Dr. Jimena
Aracena, Ms. Sue Ball, Dr. Randy Barnett, Mr. Brad Bryant, Dr. Melinda Burgess, Dr. Stephen Burgess, Dr. Brian Campbell, Dr. Lisa Castle, Dr. Kevin Collins, Ms. Leah Cox, Dr. Viki Craig, Dr. Thomas Cunningham, Dr. Dean Dawson, Dr. Jared Edwards, Dr. Jorie Edwards, Dr. Trevor Ellis, Dr. Sylvia Esjornson, Ms. Terry Ford, Dr. Hector Garza, Dr. Victor Gonzalez, Dr. Lori Gwyn, Dr. Andrea Holgado, Dr. James Hubbard, Dr. Tim Hubin, Ms. Joana Hyatt, Dr. E.K. Jeong, Dr. Jason Johnson, Dr. Robin Jones, Ms. Tee Kesnan, Dr. Faruk Khan, Mr. Dick Kurtz, Dr. Denise Landrum-Geyer, Dr. Sophia Lee, Mr. Kris Mahlock, Dr. Warren Moseley, Mr. Kalyp Oliver, Dr. Steven O’Neal, Dr. Cynthia Peña, Dr. Siriporn Peters, Dr. Valerie Reimers, Ms. Amber Sturgeon, Dr. Muatasem Ubeidat, Mr. Jeff Walker, and Ms. Jessica Young.

Six students from the Western Technology Center Biomedical Academy in Burns Flat, sponsored by Director Jana Rowland, also presented at the fair. The students presenting included: Brooke Battles, Kendahl Camblin, Megan Foust, Lauren Russ, Charles Spells, and Jesse Velasco. High school students from Canute, Geary, and Yukon also visited the fair. Students from Canute High School, Geary High School, and Yukon High School also visited the fair.

The fair was sponsored by the University Research and Scholarly Activity Committee and the SWOSU Office of Sponsored Programs. Committee members include: Dr. Jason Johnson, Chair; Dr. Randy Barnett; Dr. Denise Landrum-Geyer; Dr. Evette Meliza; Dr. Tami Moser; Mr. Jess Parker; Dr. Faruk Khan; Dr. Muatasem Ubeidat; Dr. Richard Tirk; and Dr. Lori Gwyn.

For graduate and undergraduate students interested in participating in next year’s SWOSU Research and Scholarly Activity Fair, applications should be available during the fall 2014 semester. Next year’s event will take place during the spring 2015 semester. The public is always welcome to attend and enjoy this celebration of undergraduate research.

The fair is presented by the University Research and Scholarly Activity Committee. Pictured (l-r) are Dr. Faruk Khan, OSRHE Vice Chancellor Blake Sonobe, Mr. Jess Parker, Dr. Muatasem Ubeidat, Dr. Jason Johnson, Dr. Randy Barnett, SWOSU Provost James South, Dr. Tami Moser, Dr. Denise Landrum-Geyer, and SWOSU President Randy Beutler.
Bailey Martin

Megan Ayala

Ashley Dobbs, Nicole Laitran, and Austin Munson

Gordon Perry

Dr. Richard Tirk and the SWOSU Trumpet Ensemble

Nile McCullough

Anna Smith and Robert Cramer

Mshal Almaqbal performs Saudi Arabian music.
For help finding specific grant opportunities, please fill out this Research/Scholarly Activity Interest Profile Form.

**Travel Funds**

OSP awards travel funds for those presenting scholarly activity. Follow the link for more information. www.swosu.edu/osp/info/fapol.aspx

**Responsible Conduct of Research Training**

The National Science Foundation and National Institutes of Health mandate that ALL students, post-doctoral researchers, trainees, fellows, and scholars who participate in any capacity in any NIH- or NSF-sponsored training, career development awards, or research grants receive Responsible Conduct of Research (RCR) training.

To comply with these NIH and NSF mandates and SWOSU’s Responsible Conduct of Research Training Plan, SWOSU will present a one-day RCR training session on June 2, 2014, from 8:00 a.m. to 5:00 p.m. (with a one-hour lunch break) in CPP 208. Attendance for the entire session is mandatory to meet the requirements. To register, please fill out the online form at www.swosu.edu/administration/osp/rcr-registration.asp. The registration deadline is May 30, 2014.

The training focuses on ethical decision making; participants will be expected to actively participate; and certificates of completion will be issued to those who satisfactorily complete the full training. While attendance is mandatory for anyone participating in any NIH- or NSF-sponsored projects, it is also open to anyone interested in obtaining the training and certificate.

For more information about SWOSU’s RCR Training Plan, please visit www.swosu.edu/administration/osp/info/index.asp.

**CUR Proposal Writing Institute**

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Event Dates: July 17-21, 2014  
Place: University of South Alabama, Mobile, Alabama  
Application Deadline: May 22, 2014

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The Council for Undergraduate Research Proposal Writing Institute is a four-day institute which assists faculty and administrators interested in preparing proposals for external funding agencies. The application for this event is located at the following website: https://members.cur.org/members_online/submissions/submit/start.asp?action=welcome&cid=138.

To find out more information about the CUR Proposal Writing Institute, please visit www.cur.org/conferences_and_events/institutes/proposal_writing_institute/.

**BECOME A CUR MEMBER FOR FREE!**

SWOSU members may receive free membership to the Council for Undergraduate Research. Simply fill out the form located at members.cur.org/members_online/members/newmember.asp and select SWOSU as your institution.
What
The federal government sets aside nearly $3 Billion annually to fund the early-stage development of new high-tech ideas pursued by some of the nation’s most-innovative small firms. The Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR) programs are focused on funding high-risk, high-payoff research projects that have significant commercial potential. This program has winners in every state, as well as us urban and rural areas. This unique funding in non-dilutive and allows for company retention of patent rights!

This seminar provides a detailed introduction to these programs. It is designed to cover program rules, eligibility requirements, nut and bolts fundamentals, and the broad range of differences among the funding agencies. Components of a competitive SBIR/STTR application are discussed—as is the importance of the process of “getting ready to write.”

Instructor Mark Henry is nationally known as an SBIR/STTR expert, and in the past 34 years has worked on some 2500 proposals. He has presented more than 60 times at national SBIR conferences. While managing the government R&D sales effort at Bend Research (Bend, OR) for 17 years, the firm won 175 of 350 SBIR/STTR proposals and had an 83% win rate on 72 Phase II prototype/demonstration proposals.

Beyond the clear opportunities for small firms, and leveraging of “academic” preliminary data and intellectual property toward the commercial marketplace. Successful SBIR/STTR applications and projects are typically a “team sport.” University-based preliminary data and expertise are often key components of successful SBIR and STTR projects. Join us to learn about this unique program and to network with potential partners and collaborators.

Who Should Attend
The workshop is oriented towards those interested in participating in STTR/SBIR, including those who are considering spinning off a new business and those who want to collaborate with an existing outside small R&D business. Representatives of small businesses, including those that are considering a collaborative STTR/SBIR proposal with a university, also are encouraged to attend.

When
Thursday, May 15, 2014 from 9 a.m. to 3 p.m. (Breakfast and Registration begin at 8:30.) Breakfast and lunch provided.

Where
Room 416 (Case Study 2), Student Union, Oklahoma State University in Stillwater, OK. The student union is located on the corner of Hester St. and University Blvd. Parking is available in the Student Union parking garage.

More information
Register at http://sbir-sttr.eventbrite.com. Registration is free. For more information, please contact Rick Rainey at RRainey@i2E.org. This event is hosted by i2E, EPSCoR, and OCAST.
Congratulations to the following faculty who were notified of awards since the last newsletter!


OSP would like to give recognition to Ms. Madeline Baugher and Dr. Andrea Holgado for their recent grant submissions. Thank you for your hard work!

The Office of Sponsored Programs has been notified of the following Scholarly and Academic Activities since the last newsletter:


**Tyler Gorshing**, Mathematics, presented his paper, “Centers of Some Non-Relativistic Lie Algebras,” at the 76th Mathematical Association of America Oklahoma-Arkansas Sectional Meeting in Searcy, Arkansas.

**Denise Landrum-Geyer**, Language and Literature, presented her paper, “Performing on Pinterest: A Platform for Public Invention Practices,” at the Conference on College Composition and Communication in Indianapolis, Indiana. Dr. Landrum-Geyer also published her article, “Art Provides a Sense of Place,” in the *Weatherford Life* magazine.

**Shelley Martinson**, Music, performed at the College Music Society South-Central Conference in Fort Smith, Arkansas, as part of the Tornado Alley Flutes: Music by Women Composers.


**Todd Parker**, Art, Communication, and Theatre, curated the Across the Divide Exhibition on the SWOSU campus.