

# OFFICE OF SPONSORED PROGRAMS

## UPCOMING ACTIVITIES

SBIR/STTR Workshop:  
May 15, 2014

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RCR Training:  
June 2, 2014  
*Registration Deadline:*  
May 30, 2014

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CUR Proposal Writing  
Institute: July 17-21, 2014  
*Application Deadline:*  
May 21, 2014



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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 21<sup>st</sup> 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

## FAIR, CONT.

and podium presentations included: Alfa Abame, Matt Abbott, Amanda Adams, Rosalee Adams, Aileen Aiello, Talal Alanazi, Abdullah Alghamdi, Yusouf Al-Ghazali, Rahaf Aljohani, Maryam Alkhaibari, Mshal Almaqbal, Mohammed Al-momen, Hamuod Abdullah Almorgi, Fahad Almutairi, Ali Al-Shawaf, Mohammed Al-Subaihi, Megan Ayala, Emily Baalman, Edward Bacon, Cassidy Baker, Allison Bedell, Mackenzie Bergagnini, Blaine Boyd, Austin Bradshaw, Melissa Brewer, Drew Brower, Jamin Brown, Jim Bui, John Bui, Feras Bukhari, Gwen Burgess, Desiray Cannon-Smith, Rebecca Cantrell, Brittany Carter, Zella Classen, Ashley Cole, Tyler Colwell, Johnny Covalt, Robert Cramer, Maryanne Dantzler-Kyer, Dustin Davilla, William Davis, Ashley Renee Dobbs, Jill Dotson, Lindsay Dusin, Brandon Earney, Shannon Eidenshink, Brittany Epley, Louise Esjornson, Coleman Farley, Lon Ford, Kenneth Franke, Alyssa Friesen, Crystal Gaylord, Maci Glasscock, Cord Gothard, Brandon Graham, Vyc-toria Gray, Tyler Haden, Megan Haley, Hayden Harrington, Adam Hawkins, Jonathan Haworth, Angie Hoover, Mohammad Hossain, Mason Howe, Yi-Wei Huang, Shawn Hughes, Mary Hull, Rachel Hurt, John Eze Izuchukwu, Elizabeth Jansing, Kayla Johnson, Donald Jones, Shasta Jones, Hyejin Kim, Katy Kirkpatrick, Shay Klassen, Patra Kositchaiwat, Veronica Ladd, Nicole Laitran, Matt Lanier, Justin Le, Parker Long, Michelle Low, Sam Maddux, Jacklyne Manning, Wil Markus, Bailey Martin, Melissa McCormick, Nile McCullough, Allen Shane McGlothlin, Ryan McKee, Abby McKisson, Mike Morrison, Austin Munson, Ashley Murray, Varun Reddy Nagireddy, Khanh Nguyen, Eunice Nwokocha, Rosemary Omlin, Clint Peck, Melissa Perez, Gordon Perry, Kamden Phillips, Mary Ann Phillips, John Polcyn, Brandon Pounds, Jeff Pratt, Nick Reyes, Rico Rivera, Apoorva Rudraraju, Trixie Russell, Nick Rymer, Prabhjyot Saluja, Catherine Schubert, Jimmy Shackelford, Anthony Shircliff, Anjuli Shrestha, Anna Smith, Anastacia Speed, Kaci Spence, Elizabeth St. John, Timothy Stein, Christopher Stevens, J.J. Stout, Jordan Thompson, Joshua VanTuyl, Ashlie Walker, Li Xia Wang, Lori Webb, Nicholas Whalen, Kevin Williams, Kevin Wilson, Haley Woolsey, Qian Yang, and Ying Zhang.

SWOSU faculty who participated with the poster and podium presentations, either as sponsors or as presenters, included: Dr. Lisa Appeddu, Dr. Jimena



Brittany Carter and Melissa McCormick



Mary Ann Phillips, Adam Hawkins,  
and Mike Morrison



Maryam Alkhaibari and Rahaf Aljohani



Jonathan Haworth and Brandon Earney



## FAIR, CONT.

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 Re-



**Mohammed Almomen**

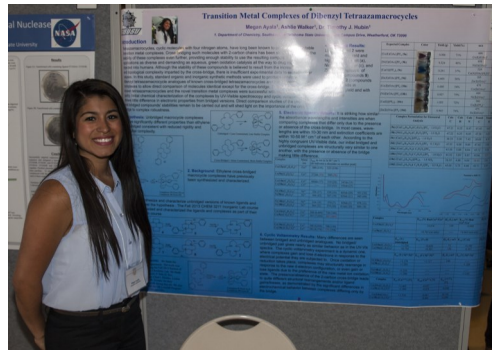
search and Scholarly Activity Committee and the SWOSU Office of Sponsored Programs. Committee members include: Dr. Jason Johnson, Chair; Dr. Randy Barnett; Dr. Denise Landrum-Geyer; Dr. Evette Meliza; Dr. Tami Moser; Mr. Jess Parker; Dr. Faruk Khan; Dr. Muatasem Ubeidat; Dr. Richard Tirk; and Dr. Lori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





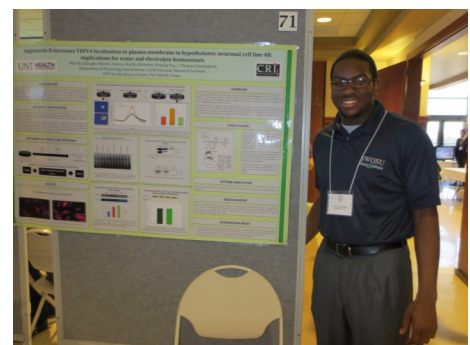
**Megan Ayala**



**Ashley Dobbs, Nicole Laitran, and Austin Munson**



**Dr. Richard Tirk and the SWOSU Trumpet Ensemble**



**Nile McCullough**



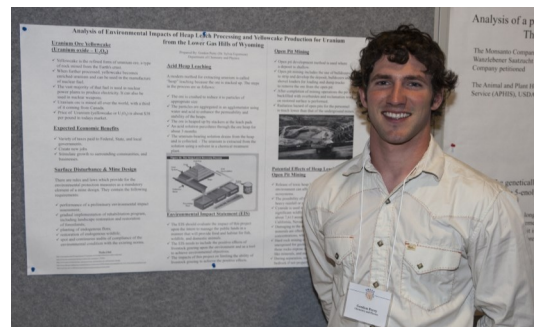
**Bailey Martin**



**Anna Smith and Robert Cramer**



**Mshal Almaqbal performs Saudian Arabian music.**



**Gordon Perry**

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](http://www.swosu.edu/osp/info/fapol.aspx)

For information on how to apply for a grant, visit [www.swosu.edu/administration/osp/info/preawd.aspx](http://www.swosu.edu/administration/osp/info/preawd.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](http://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](http://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://](https://members.cur.org/members_online/submissions/substart.asp?action=welcome&cid=138)

[members.cur.org/members\\_online/submissions/substart.asp?action=welcome&cid=138](https://members.cur.org/members_online/submissions/substart.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/](http://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](http://members.cur.org/members_online/members/newmember.asp) and select SWOSU as your institution.



## CALLING ALL INSTRUCTORS!

Interested in teaching the public something new, interesting, fun, or important? If so, we can help. Just visit the Continuing Education website at [www.swosu.edu/administration/osp/ce](http://www.swosu.edu/administration/osp/ce).



To report your scholarly or academic activity, please fill out the form at this link: [www.swosu.edu/osp/scholarly-activity-report.aspx](http://www.swosu.edu/osp/scholarly-activity-report.aspx).

For more OSP updates, like us on Facebook! [www.facebook.com/SWOSUosp](http://www.facebook.com/SWOSUosp)

## SBIR/STTR WORKSHOP AT OSU

### 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 in urban and rural areas. This unique funding is 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, nuts 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, academic research, including postdoctoral and graduate student researchers, can also participate in these unique “small business” programs in a number of ways, including paid participation in R&D projects, ownership of the funded

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-sstr.eventbrite.com>. Registration is free. For more information, please contact Rick Rainey at [RRainey@i2E.org](mailto:RRainey@i2E.org). This event is hosted by i2E, EPSCoR, and OCAST.

# GRANTS AND CONTRACTS AWARDED

Congratulations to the following faculty who were notified of awards since the last newsletter!

**Madeline Baugher**, Accounting, Computer Science, and Entrepreneurship, “Oklahoma NASA EP-SCoR—Research Implementation Grant Year 2,” Board of Regents of the University of Oklahoma, \$1,837.

**Doug Misak**, Center for Economic Business Development, “Partnership Recognition Program FY14,” Oklahoma State Regents for Higher Education, \$500.

## GRANTS SUBMITTED

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!

# SCHOLARLY AND ACADEMIC ACTIVITY

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

**Guy Biyogmam**, Mathematics, published his article, “Introduction to  $gb$ -Triple Systems” in the *International Scholarly Research Network Algebra Journal*. He also reviewed an article for *Mathematical Reviews/MathsciNet*. Dr. Biyogmam also presented his paper, “A Study of Intuitionistic Fuzzy n-Racks”, at the 76th Mathematical Association of America Oklahoma-Arkansas Sectional Meeting in Searcy, Arkansas.

**Jieun Chang**, Social Sciences, presented her research titled “Management Practices and Firm Performance” at Oklahoma Research Day in Edmond, Oklahoma. Also attended the Midwest Economics 78th Annual Meeting in Evanston, Illinois. At this event, served as the chair for “Session 4C: Teachers and Education;” discussed the paper, “When Price Discrimination Fails—A Principal Agent Problem with Social Influence;” and presented her paper, “Management Practices and Firm Performance.”

**Tyler Gorshing**, Mathematics, presented his pa-

per, “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.

**Thomas McNamara**, Mathematics, presented his paper, “Representations of the Euclidean Group,” at the 76th Mathematical Association of America Oklahoma-Arkansas Sectional Meeting in Searcy, Arkansas.

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