### OFFICE OF SPONSORED PROGRAMS

Dr. Lori Gwyn, Director Ms. Berva Pool, Specialist Ms. Delana Holt, Student

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#### **UPCOMING EVENTS:**

- March 21-25
   Brain Awareness Week
   http://www.swosu.edu/news/releases/2011/2011-03-08c.asp
- April 11-15 National and Oklahoma Undergraduate Research Week
- April 12, 2011 SWOSU Research and Scholarly Activity Fair
- April 20, 2011
   OK EPSCoR NSF Grants
   Conference
   www.okepscor.org

Office of Sponsored Programs Administration 201 (580) 774-7012

# SWOSU OSP

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### UNDERGRADUATE RESEARCH WEEK APRIL 11, 2011—APRIL 15, 2011

The 1st National Undergraduate Research Week and 1<sup>st</sup> Undergraduate Research Week in Oklahoma will be held April 11-15.

Southwestern Oklahoma State University will be promoting Undergraduate Research Week on our campus as well as hosting our premier research event: the 18<sup>th</sup> Annual SWOSU Research and Scholarly Activity Fair. The Fair will be held at the Student Union Ballroom from noon to 3:00 p.m. and President Randy Beutler will make opening remarks at 12:15 p.m.

Undergraduate Research encompasses all undergraduate activities where undergraduate students make an inquiry or conduct an investigation that makes an original intellectual or creative contribution to their discipline.



The Fair will showcase the research accomplishments of SWOSU undergraduate students and their mentors. This year's fair represents disciplines including Allied Health, Art, Biology, Chemistry, Computer Sciences, Language and Literature, Mathematics, Music, Physics, Pharmacy, Psychology, Social Sciences, and Technology.

Come and Join us at the Fair to Celebrate Undergraduate Research Week!



# Spotlight on Undergraduate Research Projects

"Around the country, thousands of students at hundreds of colleges and universities are involved in undergraduate research experiences that will shape the future trajectories of their lives and careers, yet we would benefit if thousands more were involved."

U.S. Representative
Rush Holt (NJ) in support of House Resolution 1654Declaraition of National Undergraduate
Research Week

Undergraduate Research is a great opportunity for students to use the knowledge they have learned in a classroom and apply it to real world applications. Undergraduate Research encompasses all disciplines. Everywhere on campus, exceptional undergraduate research projects are being conducted. Below is just a sampling of research conducted here at SWOSU.

Biology students in the lab of Dr. Andrea Holgado investigate the nervous systems of the worm *c. elegans* to increase our understanding of human neurological diseases. Students involved in the project have included Ariana Eakle, Melanie Graham, Erica Benda, Dana Poling, Carissa Fischer, Dan Stefanovic, Sassy Guthmueller, Maggie Yoder, Tyler Hardin, Taylor Baxter, Angela Foust, and Tanner Wheeler.

Inorganic chemistry students Courtney Garcia, Natalie Simpson, Kevin Wilson, and Justin Le under the direction of Dr. Tim Hubin help design and synthesize metal containing compounds for antiviral and anticancer applications.

Psychology students Sarah Pebley, Alex Garrett, Catherine Schubert, under the direction of Dr. Melinda Burgess study the media influences of the portrayal of sexuality on the perceptions of college students with regards to sexual harassment and product advertising. Students Nick Brown, Crystal Gaylord, Ryan Cowick, and Quinlan deWendt also working with Dr. Burgess have been developing a project to investigate how media presentations influence college students' attitudes about religion.

There are also accomplished poets on campus including Dr. Viki Craig, Dr. Kelley Logan, and Mr. Fred Alsberg. These faculty members and their students, Mallory Johnson, Kaitlen Beldon, Rachel Perkins, and Deborah Phillips, read their poetry at the Holiday Arts Event sponsored by the Weatherford Arts Council on December 6, 2010. Prizewinning poetry students Murv Thornton, Jordan Kelley, and Josh Doering shared their poetry at The Cup in downtown Weatherford at an event sponsored by the Weatherford Arts Council.

Under the advisement of Dr. John Hayden, senior History major Jakob Hertzel investigates the origins of the Bayeux Tapestry which chronicles the events that led up to the Norman Conquest of England and its Anglo-Saxon population in 1066 by William, Duke of Normandy. Was it made by English tapestry makers in England or French craftsmen and women in France? Jakob's research studies the images of the tapestry closely to reach a conclusion regarding the national origins of this priceless medieval artifact.

Dr. Anil Pereira and his student Anthony Scabby are developing a model to test the effectiveness of the Hash process to maintain data integrity in cloud computing systems.

Come visit the SWOSU Research and Scholarly Activity Fair to learn about some of these and other projects!

# Benefits of Undergraduate Research

#### For Faculty

- and improved teaching.
- -Personal satisfaction working with students toward a common goal.
- -Effective means of staying current in one's field.
- -Research attracts engaged students to programs.

#### For Students

- -Intellectual Invigoration, increased enthusiasm, Gain experience to give them that competitive edge for professional and graduate school and job applications.
  - -Make informed academic and career decisions.
  - -Gain understanding of what a professor really does and how they stay in touch with new advances in their field.
  - -Feeling of satisfaction and accomplishment by making

#### COUNCIL ON UNDERGRADUATE RESEARCH **Activities for National Undergraduate Research Week**

- On Tuesday, April 12 at 2:00 PM EST CUR will offer a complimentary webinar, "Transformational Learning through Undergraduate Research and Creative Performance" presented by Moses Lee, Professor and Dean of the Natural Sciences at Hope College. Lee along with three colleagues will discuss the value of undergraduate research and creative performance to promote learning, the resources available to develop and enhance Undergraduate Research and Creative Performance programs, and the transformation of student learning at Hope through research. For more information, contact OSP.
- On Wednesday, April 13, CUR will host Posters on the Hill at the Rayburn Building on Capitol Hill. This year humanities students will present their research at noon in a panel discussion on "Preserving Knowledge, *Creating Knowledge*". In the evening of April 13, 60 additional posters in the sciences and social sciences will be presented at a 5:30 PM EST reception for Members of Congress in B338, B339 and B340 of the Rayburn Building. Representative Rush Holt (D-NJ) will be presented the CUR Honorary Fellows Award for his continued commitment to undergraduate research and for his sponsorship of Undergraduate Research Week. SWOSU's own Courtney D. Garcia and Dr. Tim Hubin will be presenting their work at this event.
- On Thursday, April 14, The College of William and Mary and CUR will co-host a Congressional Briefing on "An Undergraduate Research Think Tank and National Security." The briefing will be in the Gold Room of the Rayburn Building at 12:30 PM EST.
- On Friday, April 15, CUR will sponsor the National Public Radio Program, "Science Friday". CUR will also have an announcement of Undergraduate Research Week in the Chronicle of Higher Education.

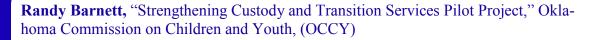
There is a discount on all CUR publications purchased during April.

#### **GRANTS AND CONTRACTS AWARDED**



Check out our updated website at www.swosu.e du/administration/osp

Send us your pictures and pdf files of your posters or presentations. Let's show the world the incredible Research and Scholarly Activity opportunities available at SWOSU!



**Madeline Baugher,** "Oklahoma Space Grant Consortium – NASA Scholarships and Workforce Development Augmentation Grant" National Aeronautics Space Administration through The University of Oklahoma.

**Andrea Holgado,** "RUI: Modulation of Synaptic Vesicle Exocytosis in *C. elegans*, 2nd year funding" National Science Foundation.

**Kelli Litsch**, "2011 Lone Star Conference Grant," National Collegiate Athletic Association (NCAA).

**Henrietta Mann,** "Cheyenne and Arapaho Tribal College," Cheyenne and Arapaho Tribes.

#### OSRHE SUMMER GRANT WRITING INSTITUTE



Applications are now available for the Oklahoma State Regents for Higher Education Summer Grant Writing Institute. The Institute will be August 1-5, 2011, in Oklahoma City. The purpose of the four day institute is to provide first-time and novice grant writers an opportunity to work with grant writing mentors and to write a complete grant

proposal. Application is available at <a href="http://www.okhighered.org/grant-opps/training-opps.shtml">http://www.okhighered.org/grant-opps/training-opps.shtml</a> The application deadline is March 31, 2011.

If selected to participate, the Office of Sponsored Programs will cover the registration costs. For more information, please visit the OSRHE website, contact OSP at X7012, or contact Dr. Linda Mason at 405-225-9486 or by email at lmason@osrhe.edu.



### State Grant External Evaluator List



The Council on Grantsmanship and Research (CGR) is establishing a listing of faculty, staff, and administrators from the state of Oklahoma who are interested and qualified to serve as external evaluators for a variety of types of grant proposals. The list will be included on the <u>CGR website</u> hosted by the Oklahoma State Regents for Higher Education and will allow PIs from institutions of higher education to identify external evaluators for federal, state, and foundation grant proposals. If you are interested and willing to serve as an external evaluator for grant projects, please complete the following survey online at <a href="http://www.surveymethods.com/EndUser.aspx?">http://www.surveymethods.com/EndUser.aspx?</a> 85A1CDD780C2D3D380

## FUNDING OPPORTUNITIES



Applications for REU programs and Faculty Research Opportunity Awards are available at http://www.okepscor.org/research/funding-opportunities. Please visit the website for more information.

<u>The Inasmuch Foundation</u> accepts requests that focus on education, health and human services, and community enhancement. Proposal Deadline: July 15, 2011 For more information please visit the website at: <a href="http://www.inasmuchfoundation.org/">http://www.inasmuchfoundation.org/</a>

<u>GreenWorks! Grants</u>-Service learning based grants open to any educator, formal or non-formal, who has been through a Project Learning Tree workshop. Grants up to \$5000 are available for projects that build school-community partnerships and emphasize education on environmental issues. For more information please visit the website at http://www.forestry.ok.gov/education-grants

# COMPLIANCE CORNER: REPORTING SCHOLARLY AND ACADEMIC ACTIVITIES

In cooperation with the Al Harris Library, the Office of Sponsored Programs (OSP) will now be forwarding scholarly and academic activities to the library to be added to the library's digital repository. Documents or books pertaining to these activities should preferably be submitted in Microsoft Office, Postscript, or PDF format, in electronic version if available. On the form you should indicate if any publisher embargo (or copyright block) is known. If so, please indicate which publisher is responsible for the embargo or copyright block. Information pertaining to the author's activity will NOT be placed in the library's digital repository without the consent of the author. The form and electronic version of the scholarly activity should still be submitted to OSP.

The Scholarly/Academic Activity Report Form can be found on the SWOSU web site under the tab Faculty and Staff/University Forms/Grants and Research or visit: http://www.swosu.edu/administration/osp/research-forms.asp

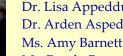
The form has been updated to include copyright protection information. Please use the new form to submit your's and your student's scholarly and academic activities.

For information concerning the Al Harris Library Digital Repository (http://site.ebrary.com/lib/swosudr), please contact the Reference and Digitization Librarian, Phillip Fitzsimmons.

Contact the Office of Sponsored Programs, ext. 7012, if you are unable to retrieve the report form. It is imperative to utilize the report form in order to record activity in an efficient and effective manner. Please note that the report form requires signatures. Also, please submit an electronic copy of the activity, i.e. publication, paper presented, poster, newsletter, with the report form. Submit the report form and copy of the activity to the Office of Sponsored Programs (OSP) periodically throughout the academic year or by June 30th for inclusion in this Fiscal Year Annual Report. Please do not wait until the last month to submit. Previous year reports may be viewed in the Office of Sponsored Programs or on the Sponsored Programs website; www.swosu.edu/administration/osp/annual-report.

# **Principal Investigators Recognition Reception** 2011







Mr. Randy Barnett

Ms. Madeline Baugher

Ms. Ruth Boyd Mr. Brad Bryant

Ms. Brenda Burgess

Dr. Melinda Burgess

Dr. Erin Callen

Dr. Brian Campbell

Dr. Lisa Castle

Dr. Les Crall

Ms. Cindy Dougherty

Dr. David Esjornson

Mr. Tom Fagan

Mr. Brad Fitzgerald

Dr. Cynthia Foust

Ms. Breanne Gustin

Dr. Marvin Hankins Ms. Wendy Henson

Dr. David Hertzel

Dr. Andrea Holgado

Dr. Timothy Hubin

Ms. EunKyung Jeong

Dr. Jason Johnson

Dr. William Kelly

Dr. Faruk Khan

Mr. Ed Klein

Dr. Sophia Lee

Dr. Douglas Linder

Ms. Kelli Litsch

Dr. Henrietta Mann

Dr. David Martyn

Dr. Robbie McCarty

Ms. Debbi McFarlin

Dr. Tami Moser

Ms. Jamie Novey

Mr. Todd Parker

Dr. Eric Paul

Dr. Anil Pereira

Mr. Steve Ray

Dr. Doug Ried

Dr. Ken Rose

Dr. Keith Talley

Dr. Rahmat Talukder

Mr. Duncan Taylor

Dr. Wayne Trail

Dr. Muatasem Ubeidat

Ms. Xiaomiao Wang

Mr. Alden Whiteman

Dr. John Woods





















"It is with great pleasure that we as a university recognize your work in pursuit of external funding. I want you to know that these efforts are appreciated and help make this the 'premier' regional university of Oklahoma."

