



3-1-2011

March 2011

Lori Gwyn

Berva Pool

Delana Holt

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Recommended Citation

Gwyn, Lori; Pool, Berva; and Holt, Delana, "March 2011" (2011). *SWOSU OSP*. 7.
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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.okeysco.org

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SWOSU OSP

VOLUME 1, ISSUE 7

3/21/2011

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

The 1st National Undergraduate Research Week and 1st 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 18th 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 1654-
Declaration 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. Prize-winning 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 Hertzell 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

- Intellectual Invigoration, increased enthusiasm, 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

- 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.edu/
administra-
tion/osp](http://www.swosu.edu/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!



Randy Barnett, "Strengthening Custody and Transition Services Pilot Project," Oklahoma Commission on Children and Youth, (OCCY)

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 <http://www.okhighered.org/grant-opps/training-opps.shtml> 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 [CGR website](#) 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 <http://www.surveymethods.com/EndUser.aspx?85A1CDD780C2D3D380>

FUNDING OPPORTUNITIES



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

The Inasmuch Foundation 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: <http://www.inasmuchfoundation.org/>

GreenWorks! Grants-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



Dr. Lisa Appeddu
Dr. Arden Aspedon
Ms. Amy Barnett
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 Hertzell
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."

Randy L. Pruitt