



The Office of Sponsored Programs

Annual Report

Fiscal Year 2019

July 1, 2018 - June 30, 2019

Introduction

It is with great pleasure to present the Office of Sponsored Programs (OSP) Annual Report for fiscal year 2019. This report is compiled annually and includes comprehensive information for all external and intramural grants, and academic and scholarly activities.

For FY19, a total of **63** proposals were submitted worth **\$6,285,682**. The total funding received was **\$1,723,588** from **50** proposals (number of proposals that received funding). This was a **209%** increase in funding over FY18!

From the 2018-2023 university strategic plan, SWOSU Pathway to Excellence, Strategic Goal 3 states that as a university we will increase the Annual Institutional grant portfolio by \$5 million by spring 2023. We are well on our way to moving toward that goal.

Our office is committed to the support of faculty, administration, and staff in pursuit of extramural funding by providing proposal preparation support, grant-writing training, researching funding sources, and maintaining compliance with federal, state, and local compliance laws including the university Internal Review Board, BioSafety, Financial Conflicts of Interest, Responsible Conduct of Research and others as applicable.

We are also proud to support the efforts of the University Research and Scholarly Activity Committee (URSAC). URSAC plans the annual SWOSU Research and Scholarly Activity Fair, coordinates the nominee selection for the Research Day at the Capitol undergraduate student to represent SWOSU, and reviews and selects recipients for the faculty Proposal Development Awards. The Fall 2018 SWOSU Research and Scholarly Activity Fair hosted 93 unique posters and oral presentations from multiple departments across campus.

Congratulations to all faculty, staff, administration, and students for all of your hard work and dedication in securing resources and contributing to global knowledge. We look forward to continuing support of these endeavors through the coming years.

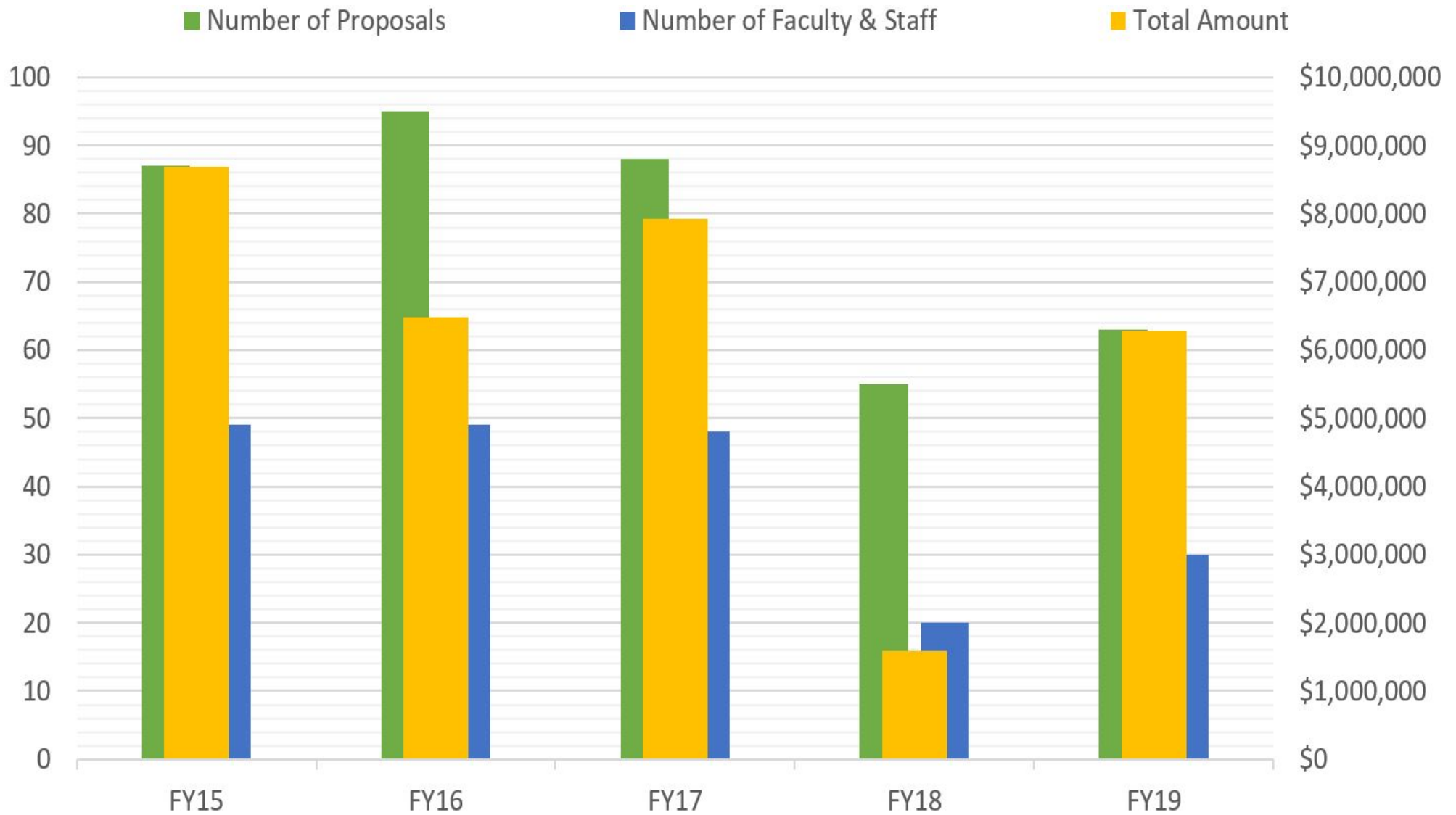
Sincerely,

Lori Gwyn, Ph.D.
Director

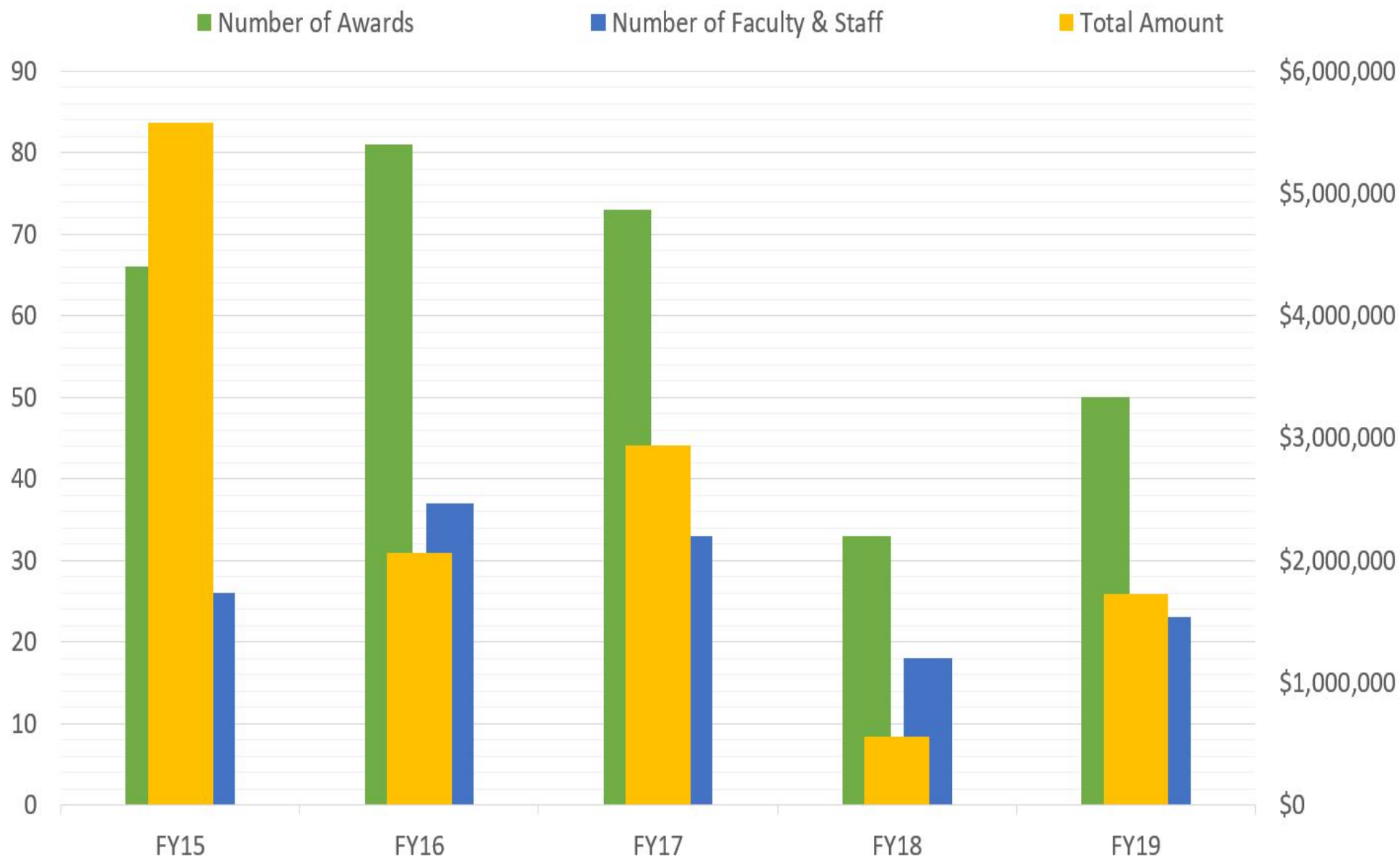
C.J. Smith
Assistant Director

Jennifer Cook-Johns
Grants Specialist

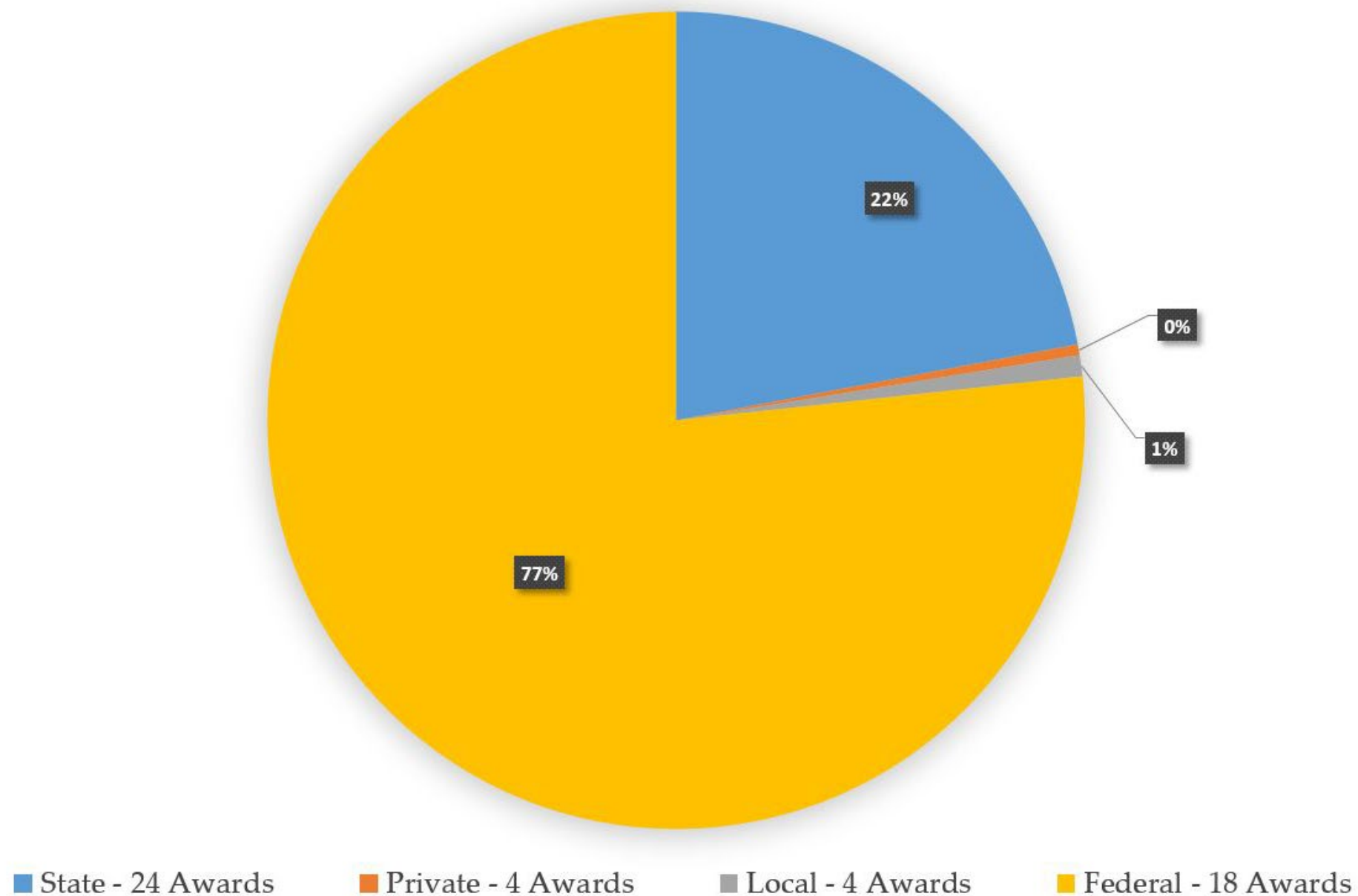
Pre-Award Activity



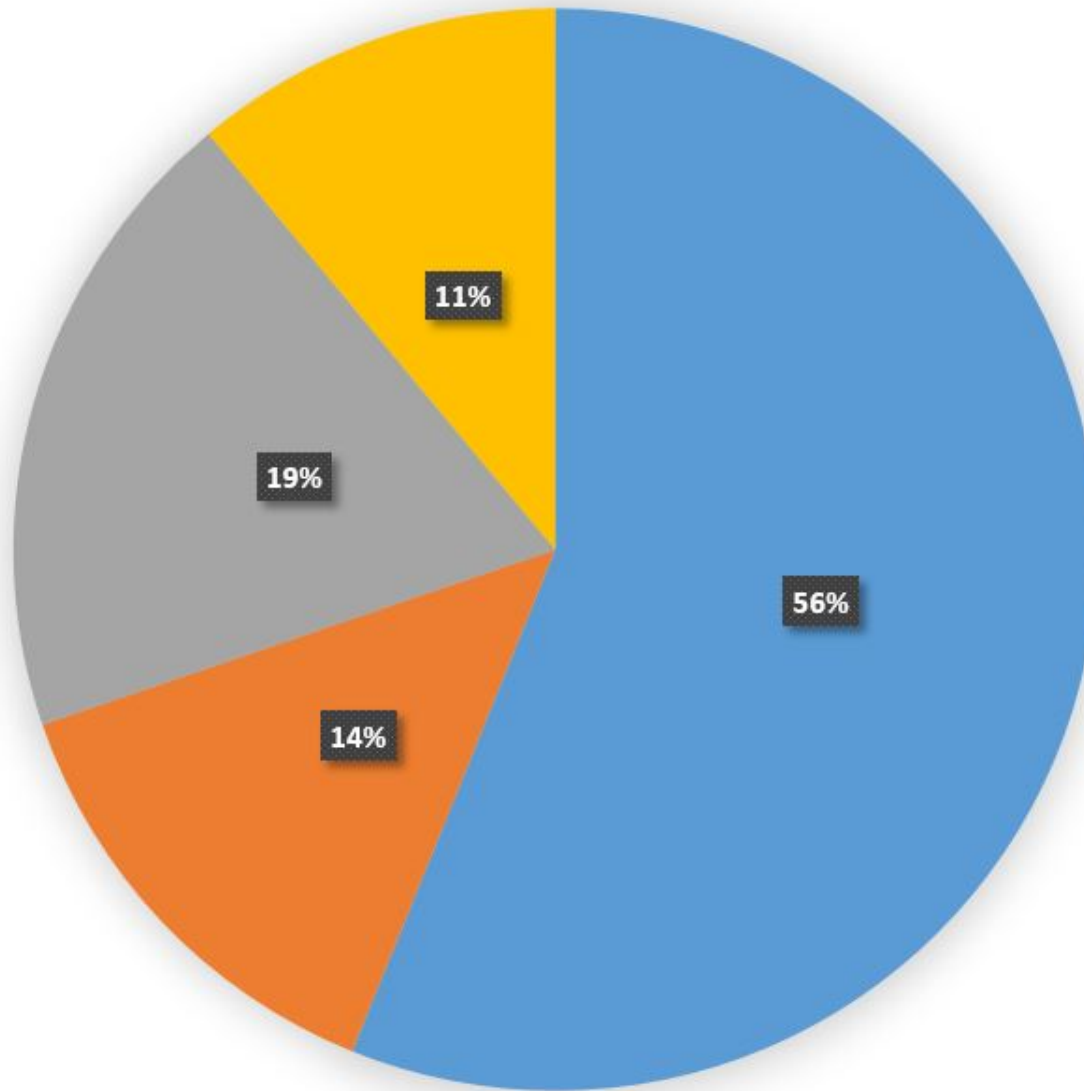
Extramural Awards



Extramural Awards by Source

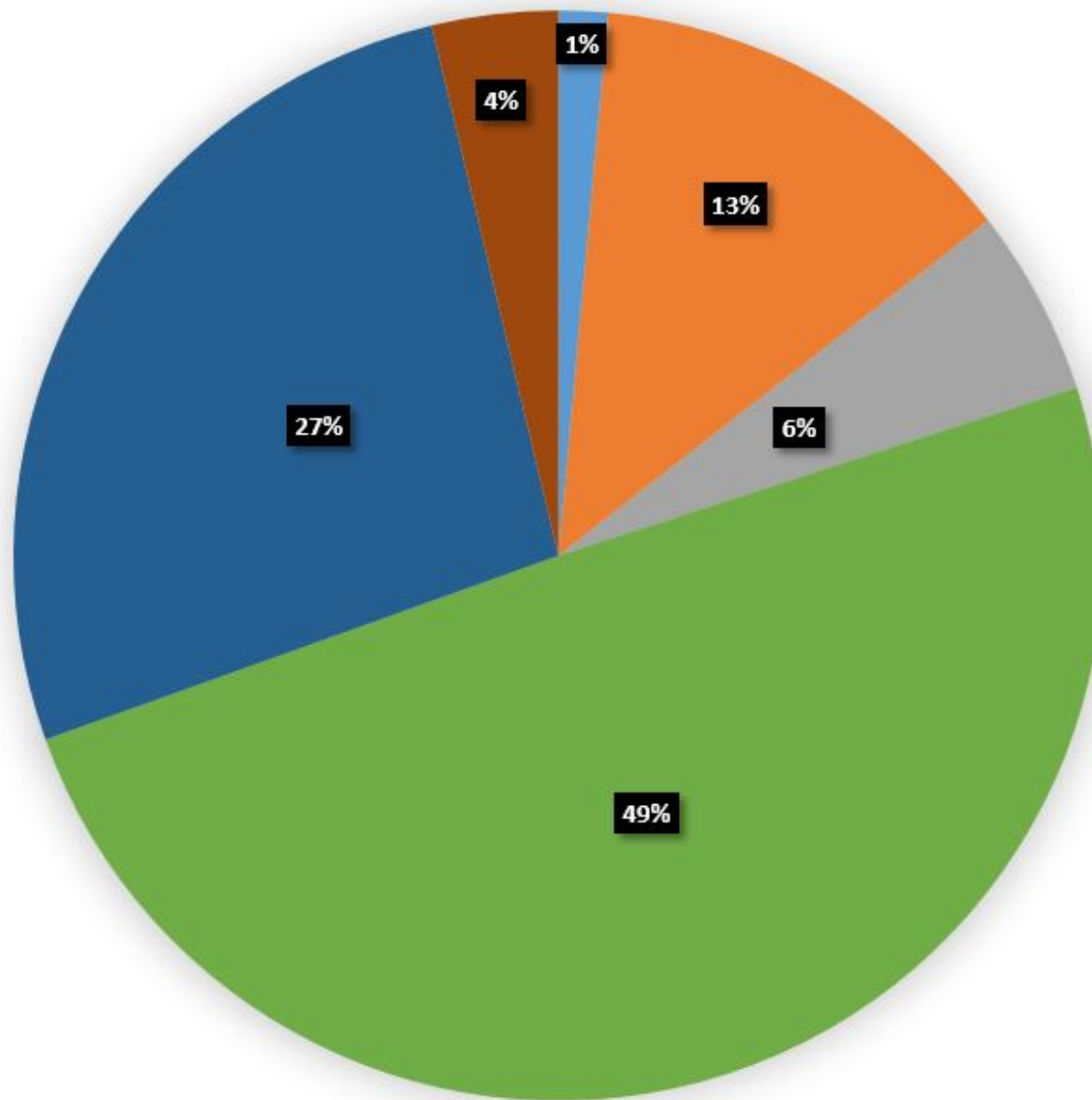


Extramural Awards by Division



- Administration - 3 Awards
- College of Arts and Sciences - 20 Awards
- College of Pharmacy - 6 Awards
- College of Professional and Graduate Studies - 16 Awards

Extramural Awards by Function



■ Academic Support - \$25,238

■ Scholarships - \$95,502

■ Institutional Support - \$0

■ Research - \$460,812

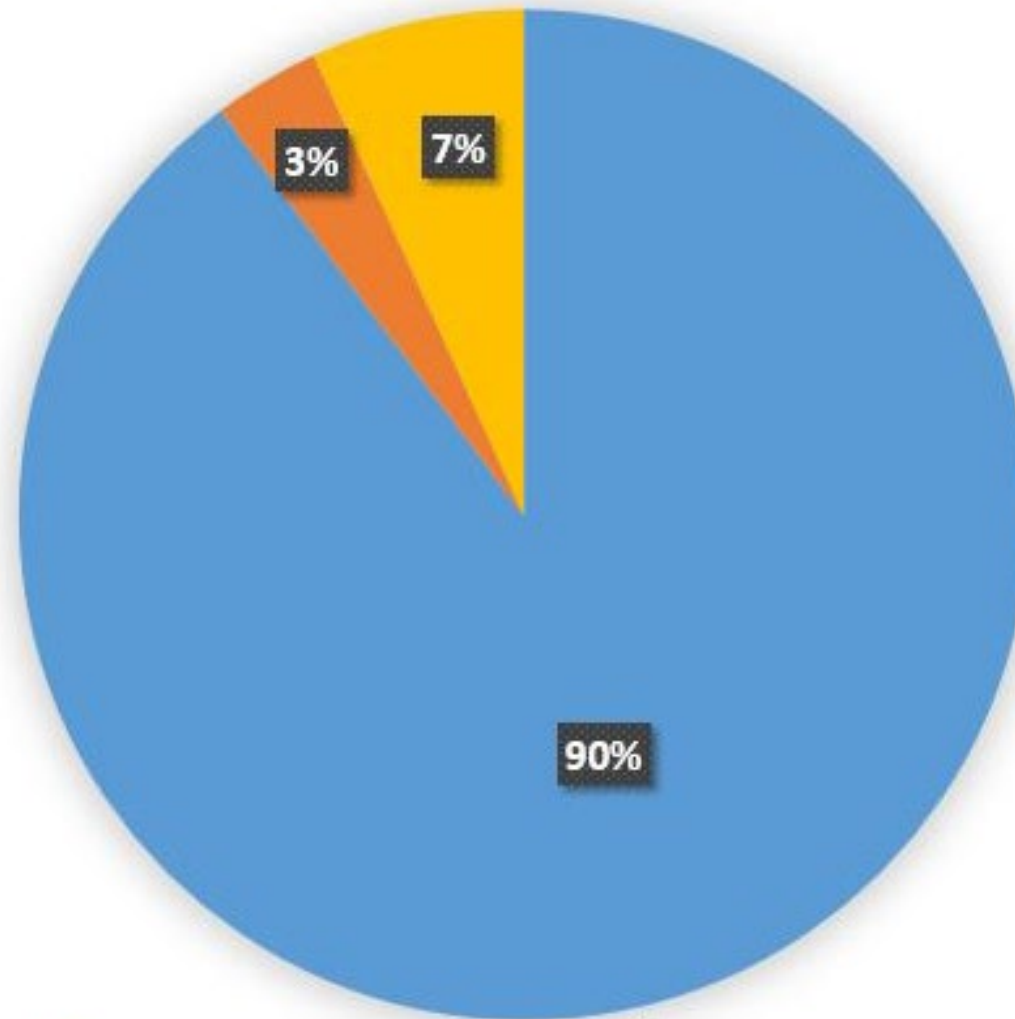
■ Public Service - \$224,180

■ Operation and Maintenance of Plant - \$0

■ Instruction - \$853,373

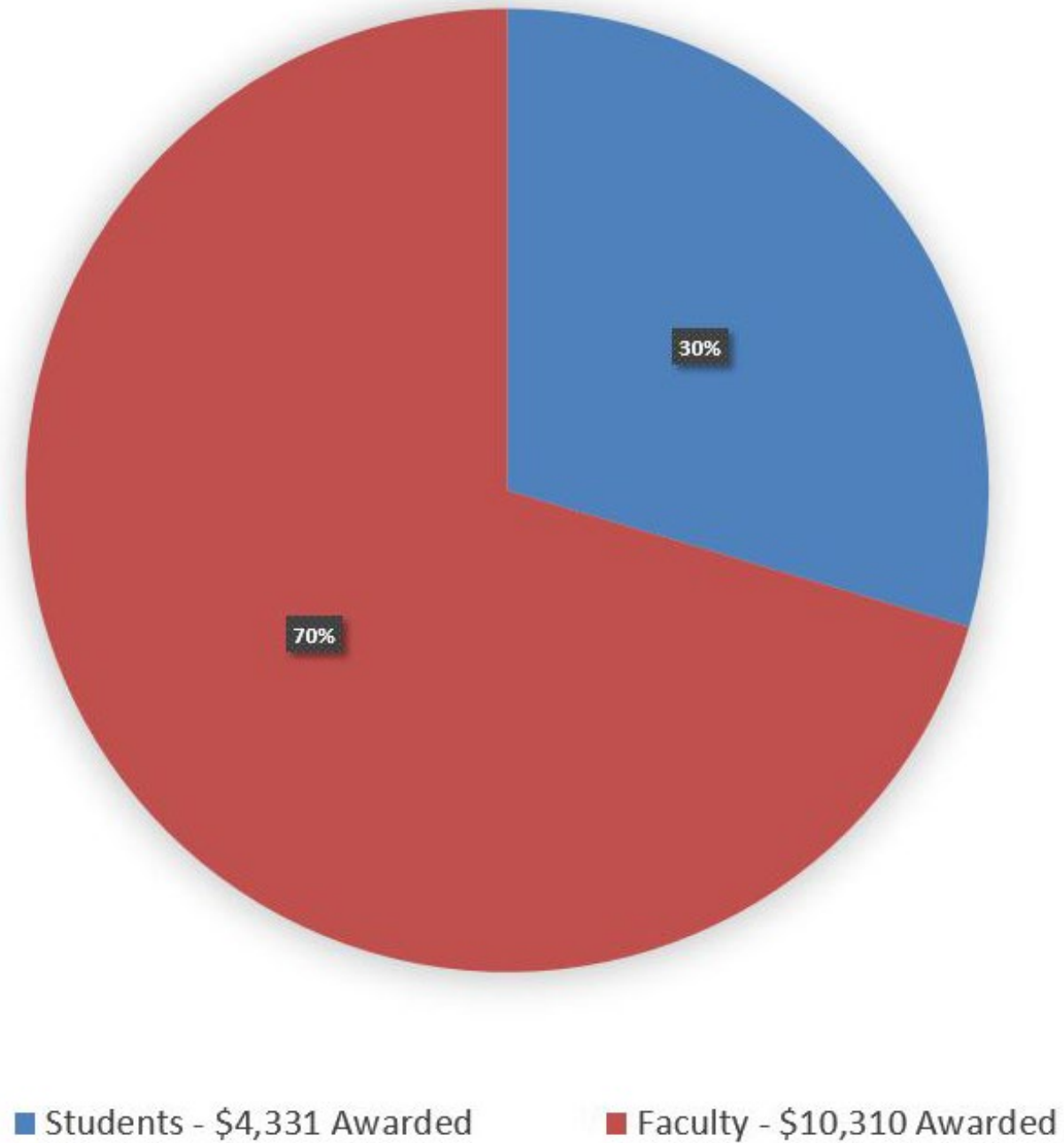
■ Student Services - \$64,483

Financial Assistance for Scholarly Activity Travel by College



- College of Arts and Sciences - \$13,141.02
- College of Professional and Graduate Studies - \$500.00
- College of Pharmacy - \$0
- Administration - \$1,000.00

Financial Assistance for Scholarly Activity Travel





FY19 Grants, Research, and Scholarly
& Academic Activity Reports

Dr. Keturah Adams

Department of Chemistry and Physics



Organized Research

Dr. Adams was awarded \$2,000 to fund her project, “Sequence Specific Recognition of Recombinant Proteins by Synthetic Molecules,” which researched incorporating unnatural amino acids into proteins with functionalities that mimics post translational modifications.

Ms. Cindi Albrightson

Department of Engineering Technology



Extramural Activity

The “**Sage STEAM Camp**” grant was awarded **\$5,000** from **OK-INBRE** to facilitate a camp that gives 8th Grade girls a hands-on Science, Technology, Engineering, the Arts, and Mathematics (STEAM) learning experience from June 1, 2019 – July 1, 2019.

Mr. Fred Alsberg

Department of Language and Literature



Supplemental Activity

Mr. Alsberg received \$500 from the Office of Sponsored Programs to present at the Southwest Popular culture Association Conference in Albuquerque, New Mexico.

Scholarly and Academic Activity

Mr. Alsberg performed, "Excavating the Dark," at the Annual Pop Culture Association Conference in Albuquerque, New Mexico.

He also published his poem, "Screenwriter," with the publisher, Poetrybay in Long Island, New York.

Dr. Lisa Appeddu

Department of Pharmaceutical Sciences



Extramural Activity

The SAGE STEAM Camp is an event that gives 8th Grade girls an opportunity to learn Science, Technology, Engineering, the Arts, and Mathematics (STEAM) in a safe, hands-on environment. Co-Principal Investigators include Dr. Regina McGrane, Dr. Denise Landrum-Geyer, and Dr. Jorie Edwards. The “SAGE STEAM Camp” grants that supported the camp were awarded by the following agencies:

-OK-INBRE, \$5,000, June 1, 2019 – July 1, 2019.

-The City of Weatherford Hotel/Motel Tax Advisory Committee, \$5,600, May 1, 2019 – July 1, 2019.

City of Weatherford Hotel/Motel Tax Advisory Committee awarded the grant, “**Haunted Hustle 5K & Creepy Kid’s Candy Crawl**” in the amount of **\$1,500** for the time period of June 1, 2018 – May 21, 2019. Co-Principal Investigators include Dr. Krista Brooks and Ms. Patti Harper. The event funded by the grant promoted healthy lifestyles via the 5K and “healthy” candy via the children’s event. SWOSU Pharmacy APhA-ASP students provided various screenings and education services for those in attendance, covering topics like heart health, diabetes, immunizations, and many others.

Organized Research

Dr. Appeddu, partnered with Dr. Scott Long, was allocated \$2,460 in Organized Research Funds in order to determine whether perception of non-nutritive sweetener (NNS) aftertaste correlates to actual aftertaste, to determine if perception correlates to genes that determine taste, and choice of consumption. The following is the student poster generated from this project:

Nguyen, Khoa (Dr. Lisa Appeddu and Dr. Scott Long). 2019. Nutritive Sweetener Aftertaste: A Review of its Causes, Prevalence, and Perception. Oklahoma Research Day. *Abstract Mathematics and Science.Pharmacy.10*.

Dr. Amy Barnett

Department of Education



Extramural Activity

The **Indian Child Welfare Act**, through the **Oklahoma Department of Human Services**, has awarded SWOSU a grant titled, “**ICWA Partnership Grant – Research Data and Evaluation Chair**” for the amount of **\$11,772** and the funding period is from July 1, 2019 – June 30, 2020. The scope of this grant includes convening regular committee meetings, providing consultation and assistance to the grant team in the identification of data and research needs of the grant on an on-going basis, conduct research and gather data on evidence based or best practice strategies that will assist the grant team in meeting the goals and objectives of the grant.

Ms. Madeline Baugher

SWOSU NASA Coordinator



Extramural Activity

Oklahoma NASA EPSCoR, through the **University of Oklahoma**, awarded the grant, “**NASA EPSCoR Research Implementation Grant – Dr. Sellers (State-yr 3)**” for the amount of **\$2,088** from **September 1, 2016 – July 31, 2019**. This grant provided administrative support for a NASA sponsored research project.

The **Oklahoma State Regents for Higher Education**, through the **University of Oklahoma** awarded **\$2,088** to fund the project, “**NASA OK-EPSCoR Research Infrastructure Year 4 Extension**,” from **September 1, 2016 – August 31, 2019**. This grant provided administrative support for a NASA sponsored research project.

The **National Aeronautics and Space Administration**, through the **University of Oklahoma**, awarded **\$46,251** to fund the year 5 extension of the “**Space Grant College and Fellowship Program**” from **July 1, 2019 – June 30, 2020**. This project provided resources to award student scholarships and support the First Tech Challenge Robotics Competition, the NASA Rover Challenge and the Space and Ground Based Data Analysis projects.

The **National Aeronautics and Space Administration**, through **Oklahoma State University** awarded **\$21,614** to fund the project, “**NASA OK-EPSCoR Research Implementation-Dr. Sigmarsson**,” from **June 1, 2018 – May 31, 2019**.

The **Oklahoma State Regents for Higher Education** awarded **\$6,808** to fund the project, “**NASA OK-EPSCoR Research Implementation-Dr. Sigmarsson**,” from **June 1, 2018 – May 31, 2019**.

The **National Aeronautics and Space Administration**, through the **University of Oklahoma**, awarded **\$1,950** to fund the project, “**NASA OK EPSCoR Research Infrastructure Year 4 Extension**” from **September 2015 – August 31, 2019**.

Ms. Madeline Baugher (cont.)

The **Oklahoma State Regents for Higher Education**, through the **University of Oklahoma**, awarded **\$1,950** to fund the project, **“NASA OK EPSCoR Research Infrastructure Year 4 Extension,”** from **August 14, 2015 – August 31, 2019.**

The **National Aeronautics and Space Administration**, through the **University of Oklahoma**, awarded **\$46,251** to fund the project, **“Space Grant College and Fellowship Program,”** from **May 1, 2015 – April 30, 2019.**

The **Oklahoma State Regents for Higher Education**, through the **University of Oklahoma**, awarded **\$2,088** to fund the project, **“NASA OK EPSCoR Research Infrastructure Year 4 Extension,”** from **September 1, 2016 – August 31, 2019.**

The **National Aeronautics and Space Administration**, through the **University of Oklahoma**, awarded **\$2,088** to fund the project, **“NASA OK EPSCoR Research Infrastructure Year 4 Extension,”** from **September 1, 2016 – August 31, 2019.**

The **National Aeronautics and Space Administration**, through the **University of Oklahoma**, awarded **\$5,943** to fund the project, **“Oklahoma NASSA EPSCoR Research Implementation Grant (Hari),”** from **September 1, 2015 – August 31, 2018.**

The **Oklahoma State Regents for Higher Education**, through the **University of Oklahoma**, awarded **\$2,079** to fund the project, **“Oklahoma NASSA EPSCoR Research Implementation Grant (Hari),”** from **September 1, 2015 – August 31, 2018.**

Dr. Ruth Boyd

Vice President for Academic Affairs



Extramural Activity

Dr. Boyd was awarded **\$4,500** from the **Oklahoma Women's Foundation** to fund the project, **Single Parent Network**. The Single Parent Network focuses on single parents, typically young women, struggling to complete their degree by identifying effective strategies to meet the varied needs of those parents.

The U.S. Department of Education awarded \$59,983 to fund the "GEAR UP" project that increases the number of low-income students who are prepared to enter and succeed in postsecondary education.

Dr. Lisa Boyles

Department of Art, Communication & Theatre

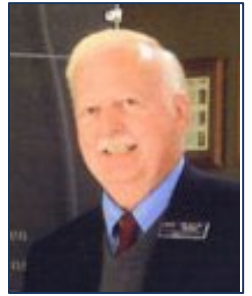


Supplemental Assistance

Dr. Boyles received \$475.49 from the Office of Sponsored Programs make a presentation at the Western Social Science Association Annual Convention in San Diego, California.

Dr. Dan Brown

Department of Social Sciences



Supplemental Assistance

Velma Carriaga, student, received \$250 from the Office of Sponsored Programs to present at the Southwestern Association of Criminal Justice Conference in San Antonio, Texas.

Chief Kendra Brown

SWOSU Department of Public Safety



Scholarly and Academic Activity

Chief Brown presented her paper, "Community Policing," at the Oklahoma Criminal Justice Association in Edmond, Oklahoma.

Dr. Stephen Burgess

Department of Psychology



Extramural Activity

The National Science Foundation, through the **Oklahoma Established Program to Stimulate Competitive Research (EPSCoR)**, awarded the grant, “**Multiple Posters at SWPA**” in the amount of **\$4,199** to fund the travel of Dr. Burgess and his students to the Southwestern Psychological Association meeting where they presented their posters.

Organized Research

Dr. Burgess received \$6,000 to fund his project, “Use of news sources to acquire information for decision making and female representation and opportunities in video games,” which provided research and presentation opportunities for students.

Dr. Jieun Chang

Department of Social Sciences



Supplemental Assistance

Dr. Chang received \$500 from the Office of Sponsored Programs to present at the Southern Economic Association Annual Meeting in Washington, D.C.

Scholarly and Academic Activity

Dr. Chang reviewed the book, *Principles of Macroeconomics*. She also participated as a discussant on the topic, “Equilibrium sorting and moral hazard in residential energy contracts,” at the Southern Economics Association Annual Conference in Washington, D.C.

While in Washington, D.C., Dr. Chang served as a Session Chair for the “Nonrenewable resources and energy” session and presented her paper, “Low income households’ investment on energy efficiency.”

Dr. Chang also reviewed the textbook, *Principles of Macroeconomics*, for Macmillan Learning.

Dr. Yu-Ling Chen

Department of Music



Supplemental Assistance

Dr. Chen was received \$500 from the Office of Sponsored Programs to present at the American Music Therapy Association National Conference 2018 in Dallas Texas.

Yi-Ching Anita Chen and Molly Nguyen received \$250 each, for a total of \$500, from the Office of Sponsored Programs to perform at the American Music Therapy Association National Conference 2018 in Dallas Texas.

Organized Research

Dr. Chen was awarded \$480, and spent \$416.37, to fund her project, "Exploring the relationship between musical ability and reading development: A comparison between native English and Mandarin beginning readers." This study attempted to explore the relationship between musical ability and reading development.

Dr. Kevin Collins

Department of Language and Literature



Supplemental Assistance

Dr. Collins received \$500 from the Office of Sponsored Programs to present at the 2018 William Gilmore Simms Society Biennial Conference in Columbia, South Carolina.

Dr. Christi Cook

Department of Language and Literature



Supplemental Assistance

Dr. Cook received \$500 from the Office of Sponsored Programs to present at the College English Association Conference in New Orleans, Louisiana.

Kristi Celestine, student, received \$141.67 from the Office of Sponsored Programs to present at the Tenth Language and Linguistics Student Conference in Edmond, Oklahoma.

Organized Research

Dr. Cook was awarded \$1,208.82 to fund her project, "National Council on Undergraduate Research Conference in Atlanta, Georgia." This funding gave Dr. Cook and three of her students the opportunity to travel to and attend the National Council on Undergraduate Research Conference in Atlanta, Georgia where they presented their research completed in their Diversity in American Literature course at SWOSU.

Dr. Rickey Cothran

Department of Biological Sciences



Organized Research

Dr. Cothran was awarded \$480, and spent \$432.50, to fund his project, "Patterns of sexual selection and local adaptation in western Oklahoma springs." Dr. Cothran and two students researched sexual conflict in freshwater amphipods (small crustaceans) and phenotypic plasticity and local adaptation in amphipods living in western Oklahoma springs.

Dr. Mark DiPaolo

Department of Language and Literature



Scholarly and Academic Activity

Dr. DiPaolo published his book, *Working –Class Comic Book Heroes*, through the University Press of Mississippi.

Dr. Michael Dougherty

Department of Mathematics



Scholarly and Academic Activity

Dr. Dougherty published his book, *First Semester Calculus for Students of Mathematics and Related Disciplines*, through the publisher, Cognella.

Mr. Jason Dupree

Al Harris Library



Scholarly and Academic Activity

Mr. Dupree was re-appointed to the Information Literacy Frameworks & Standards Committee for the Association of College & Research Libraries.

He was also re-appointed to the position of Webmaster for the Reference & User Services Association – Reference Services Section.

Mr. Dupree was re-appointed to the Academic Library Trends & Statistics Survey Editorial Board for the Association of College & Research Libraries.

Dr. Trevor Ellis

Department of Chemistry and Physics



Extramural Activity

OK-INBRE awarded \$2,000 to fund the “Travel to National American Chemical Society Meeting in Orlando, Florida” which gave Dr. Ellis and his students a chance to present at the National American Chemical Society Meeting in Orlando Florida. The funding period of this grant was from November 1, 2018 – April 30, 2019.

Supplemental Activity

Dr. Ellis received \$500 from the Office of Sponsored Programs to present at the American Chemical Society Spring Meeting in Orlando, Florida.

Mitchell Howe and Elizabeth Hicks received \$250 each, for a total of \$500, to present at the American Chemical Society Spring Meeting in Orlando Florida.

Dr. Sylvia Esjornson

Department of Chemistry and Physics



Supplemental Assistance

Dr. Esjornson received \$440.23 from the Office of Sponsored Programs to present at the Biennial Conference on Chemical Education in South Bend, Indiana.

Dr. Amanda Evert

Department of Business



Organized Research

Dr. Evert, partnered with Dr. Jonna Myer, was awarded \$10,600 to fund their project, “Using Internal Marketing to Augment Professional Development Initiatives,” which investigates Human Resource and marketing Collaboration opportunities in the field of Professional Development.

Dr. Jeremy Evert

Department of Computer Science



Extramural Activity

SWOSU received \$30,468 from the **National Science Foundation** to support the “**Multiple Organization Regional One Oklahoma Friction Free Network (MORE OFFN) (NSF16-567)**”. The Multi-Organization Regional One Oklahoma Friction Free Network (MOREOFFN) grant will address scientific research and education needs for improved research and education (R&E) networking connectivity at SWOSU and in this new state-wide consortium. Networking improvements will focus on equipment, wireless and fiber/wired connectivity needed between various regional Oklahoma universities and will better support academic data flows between these universities and connect to the state-wide Oklahoma Friction Free Network.

Scholarly and Academic Activity

Dr. Evert, and others, presented “Library Awesome Sauce Undergraduate Research” at the 2018 Coalition for Advancing Digital Research & Education (CADRE) Conference in Weatherford, Oklahoma.

Dr. Robert Fant

Department of Music



Supplemental Assistance

Robert Holder, student, received \$250 to perform at the Mid-South Horn conference and Workshop in Wichita, Kansas.

Stephen Koscho, student, received \$250 to perform at the Mid-South Horn conference and Workshop in Wichita, Kansas.

Organized Research

Dr. Fant was awarded \$2,000 to fund his project, "Meditation on Mendelssohn – Commission Project and International Presentation," which gave him the opportunity to travel to Ghent, Belgium and perform the piece he wrote in honor of Mrs. Janis South.

Mr. Phillip Fitzsimmons

Al Harris Library



Supplemental Assistance

Mr. Fitzsimmons received \$500 from the Office of Sponsored Programs to make a presentation at Mythcon in Atlanta, Georgia.

Scholarly and Academic Activity

Mr. Fitzsimmons, and others, presented “Library Awesome Sauce Undergraduate Research” at the 2018 Coalition for Advancing Digital Research & Education (CADRE) Conference in Weatherford, Oklahoma.

He presented his paper, “Sometimes More is More: Mythlore and the SWOSU Digital Commons,” at Mythcon 49 in Atlanta, Georgia.

Mr. Fitzsimmons also published his book review in *Mythlore: A Journal of J.R.R. Tolkien, C.S. Lewis, Charles William* (132) 36.2 Spring Summer 2018.

His book review of *Deeper Magic: The Theology Behind the Writings of C.S. Lewis* by Donald T. Williams to *Mythprint: Quarterly Bulletin of the Mythopoeic Society* Vol. 55 NO. 2 Summer 2018 Whole NO. 385.

Mr. Fitzsimmons presented his poster, “History Mysteries,” at the Oklahoma Library Association Annual Conference in Weatherford, Oklahoma.

Dr. Joseph Frederickson

Department of Biological Sciences



Supplemental Assistance

Dr. Frederickson received \$500 from the Office of Sponsored Programs to make a presentation at the Society of Vertebrate Paleontology Annual Conference in Albuquerque, New Mexico.

Dr. Barry Gales

Department of Pharmacy Practice



Scholarly and Academic Activity

Dr. Gales Spoke about “Statistics Review” as a guest speaker for the Great Plains Family Medicine Residency Program in Oklahoma City, Oklahoma.

Dr. Gales also reviewed the article, “Analysis of knowledge evaluation tools for pediatric asthma patients participating in an education program,” for the *Annals of Pharmacotherapy* in Oklahoma City, Oklahoma.

Dr. Gales also reviewed the article, “Evidence Based Review of the Impact of Technology Based Versus Paper Based Asthma Action Plans on Patients’ Level of Asthma Control,” for *The Annals of Pharmacotherapy* in Oklahoma City, Oklahoma.

Dr. Mark Gales

Department of Pharmacy Practice



Scholarly and Academic Activity

Dr. Gales reviewed the article, "PFA-100 measured aspirin resistance in increased with renal function decreased but not associated with cardiovascular hospitalization in severely renal function decreased: A 5-year cohort study," *The Annals of Pharmacotherapy* in Edmond, Oklahoma.

He also presented his poster, "Pharmacy College Admission Test Utilization and Minimum Composite Scores in U.S. Doctor of Pharmacy Program Admissions 2016 to 2018," at the American Association of colleges of Pharmacy 2018 Annual Meeting Poster Session in Boston, Massachusetts.

For the *Annals of Pharmacotherapy*, in Oklahoma City, Oklahoma, Dr. Gales reviewed "Vasodilatory properties of scubitril/valsartan: A meta-analysis.

Mr. Fred Gates

Department of Social Sciences



Scholarly and Academic Activity

Mr. Gates participated as a discussant at the Oklahoma Association of Colleges of Teacher Education Annual Conference in Norman, Oklahoma.

Dr. Victoria Gaydosik

Department of Language and Literature

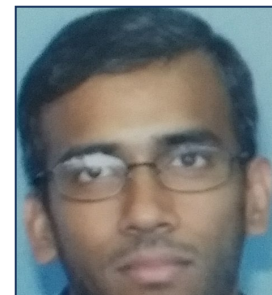


Scholarly and Academic Activity

Dr. Gaydosik presented her paper, “Was Faramir Gandalf’s Chosen Ring Bearer?” at the OCU Honors Program Conference on the Inklings: Myth and Magic Across Time in Oklahoma City, Oklahoma.

Dr. Swarup Ghosh

Department of Mathematics



Organized Research

Dr. Ghosh was awarded \$2,000, and spent \$480, to fund his project, "Isolated point theorems for uniform algebras on smooth manifolds," which gave him the opportunity to present his research on the interface between complex analysis and functional analysis at the Joint Mathematics Meeting in Baltimore, Mariland.

Dr. Peter Grant

Dean, College of Arts and Sciences



Extramural Activity

The **City of Weatherford Hotel/Motel Tax Advisory Commission** awarded **\$2,700** to fund the **Oklahoma Academy of Arts and Science** from October 1, 2018 to December 2, 2018. The mission of OAS is to stimulate scientific research through encouragement of fraternal relationships and the sharing of ideas among Oklahomans working in the sciences. The purpose of the grant was to partially support the annual Oklahoma Academy of Science conference. This conference brings in students and faculty from across Oklahoma to present research and share ideas.

Organized Research

Dr. Grant was awarded \$2,000, and spent \$1,905.81, to fund his project, “The Mayflies of Oklahoma,” where he researched aquatic insects on campus.

Dr. Lori Gwyn

Office of Sponsored Programs



Extramural Activity

Oklahoma Research Day is a consortium event coordinated by Oklahoma's Regional Universities, Oklahoma Research Day was created to be more than merely a celebration of student and faculty research, creative, and scholarly activities. The event was established to create the opportunity for students and faculty from multiple institutions to interact with their counterparts in their respective disciplines. Oklahoma Research Day 2019 was funded by the following:

- The Oklahoma IDeA Network of Biomedical Research Excellence provided \$15,000 from July 1, 2018 to June 30, 2019.
- The Oklahoma Established program to Simulate Competitive Research provided \$5,000 from July 1, 2018 to June 30, 2019.
- The Oklahoma State Regents for Higher Education provided \$30,000 from July 1, 2018 to June 30, 2019.

Dr. Aimee Henderson

Rural Health Center



Extramural Activity

The **Oklahoma State Department of Health** awarded **\$175,000** to fund the “**Heart Disease, Stroke, and Diabetes Prevention**” project at SWOSU from October 1, 2018 to June 30, 2019. The purpose of this grant is to educate healthcare professionals on the pharmacist’s patient care process and medication therapy management (MTM) core elements to create awareness of the pharmacist’s role in the team and to provide continuing education programs and resources to pharmacists in diabetes and cardiovascular management, prevention, and promotion of MTM with healthcare providers.

The Centers for Disease Control and Prevention awarded the Heart Disease, Stroke, and Diabetes Prevention grant for a second year for an additional \$175,000.

190037 The grant titled, “**Opioid Prevention Education in Oklahoma Public Schools**” was awarded by the **Oklahoma State Department of Health** for the amount of **\$25,000** from February 6, 2019 to September 29, 2019 in order to provide opioid training to Oklahoma students and parents enrolled in an Oklahoma Public School, with special emphasis on the counties with the highest concentration of opioid addiction.

Dr. Jon Henrikson

Department of Chemistry and Physics



Extramural Activity

Peptidomimetics offers the potential of drug design using small peptide sequences designed to mimic the tertiary structure of a large protein to act as a pharmacophore in the active site. Unnatural amino acids are often used to create tertiary structural features in small peptide mimetics, yet, synthesizing unnatural amino acids still remains a challenge.

OK-INBRE awarded \$2,000 in the form of the grant, “**Method Development and Determination of Metal Complex pKa’s by NMR and Visible Spectroscopy**” to fund the travel of Dr. Henrikson and his students to Orlando, FL to make a presentation at the 257th National American Chemical Society Conference and Exposition. This project was funded from November 11, 2018 – April 30, 2019.

Supplemental Assistance

Dr. Henrikson received \$386.45 from the Office of Sponsored Programs to make a presentation at the American Chemical Society Spring Meeting in Orlando, Florida.

Dr. Christopher Horton

Department of Biological Sciences



Extramural Activity

The Idea Network for Biomedical Research Excellence through the **National Institutes of Health** awarded **\$127,929** for the project, “**Mechanisms influencing expression of B7-H4, a target in cancer therapy**” from May 1, 2019 – October 31, 2020. Examining the intricate mechanisms of B7-H4 expression by developing novel reporter cell lines and screening numerous intracellular proteins for their contribution to B7-H4 expression which could potentially lead to novel therapeutic targets capable of treating a wide array of human malignancies. The purpose of this grant is for basic research.

Organized Research

Dr. Horton received \$1,900, and spent \$433.35, for his project, “Superfruit effects on lymphocyte activation and proliferation,” where he researched the effects of blueberry juice on lymphocyte activation.

Dr. Timothy Hubin

Department of Chemistry and Physics



Extramural Activity

The “**Louis Stokes Alliance for Minority Participation in Science, Mathematics, Engineering and Technology (OK-LSAMP)**” grant was awarded in the amount of **\$37,025** by the **National Science Foundation** from September 1, 2018 – August 31, 2019. The LSAMP-STEM program at SWOSU is designed to address the underrepresented minority students pursuing advanced degrees in science, mathematics, engineering and technology. The ultimate goal of LSAMP-STEM is to encourage minority students to pursue advanced degrees leading to research or teaching positions.

OK-INBRE awarded **\$2,200** in the form of the grant, “**INBRE Summer Student**” which lasted from May 1, 2019 – August 30, 2019. The goal of the “**INBRE Summer Student**” grant was to produce novel pentaazamacrocyclic counterparts to the leading tetraazamacrocyclic chemokine receptor antagonists.

INBRE, through the **Oklahoma State Regents for Higher Education**, awarded the “**INBRE Release Time: Course Development Scientific Ethics**” grant in the amount of **\$20,542** from January 1, 2020 – April 30, 2020. The purpose of this grant was to provide course release time to develop a course for the responsible conduct of research.

INBRE, the **Oklahoma State Regents for Higher Education**, awarded **\$6,000** to fund the project, “**INBRE SMaRT Student**,” from **May 1, 2019 – August 30, 2019**. The goal of this project is to produce novel bifunctional chemical ligands designed to 1) strongly chelate the Positron Emission Tomography (PET) active $^{64}\text{Cu}^{2+}$ cation, a radionuclide with a half-life of 12.7 h, ideal for PET imaging; 2) selectively bind to A β peptide aggregates for detection of amyloid plaques that are present in the brains of Alzheimer’s Disease (AD) patients.

Dr. Timothy Hubin (Cont.)

The “**INBRE Travel Grant Spring 2019**” grant was awarded by **OK-INBRE** in the amount of **\$2,000** from November 1, 2018 – April 30, 2019. This travel grant allowed Dr. Hubin and his students to travel to Orlando, FL and attend the 257th American Chemical Society National Meeting and Exposition to present their research, “Ethylene cross-bridged tetraazamacrocyclic complexes bearing thiol or primary amine pendant arms for conjugation to proteins and nucleic acids.”

Dr. Jeremy Johnson

Department of Pharmacy Practice



Scholarly and Academic Activity

Dr. Johnson reviewed the following articles for the journal, *Diabetes Spectrum*, in Tulsa, Oklahoma:

- “Health Literacy, Clinical Outcomes and Physician Advised”;
- “Comparison of usability, accuracy, preference, and satisfaction between three once weekly GLP-1 receptor agonist pen devices,”; and
- “Case Study: Amlodipine-Induced Hyperglycemia”

Dr. Johnson presented his poster, “Diabetic Eye Exams: Patient Knowledge, Perceptions, and Barriers to Adherence,” at the 2017 ASHP Midyear Clinical Meeting in Orlando, Florida.

He also reviewed “In adults over the age of 18 with prediabetes, does the addition of metformin reduce the risk of developing microvascular and macrovascular complications?” for the Oklahoma State Medical Proceedings in Tulsa, Oklahoma.

Dr. Johnson published his chapter, “Thromboembolic Disorders,” in *Ambulatory Care Self-Assessment Program, 2018 Book 1*.

His journal article, “Pharmacist-managed Short-Acting Beta Agonist Refill Service in a General Pediatric Clinic,” was published in the *Journal of the American Pharmacists* in Tulsa, Oklahoma.

He also published his journal article, “The role of basal insulin and GLP1-agonist combination products in the management of type-2 diabetes,” in the journal, *Therapeutic Advances in Endocrinology and Metabolism*.

Dr. Daniel Kavish

Department of Social Sciences



Supplemental Assistance

Dr. Kavish received \$500 from the Office of Sponsored Programs to present at the Southwestern Association of Criminal Justice Conference in San Antonio, Texas.

James Alexander, Summer Graham, and Jesus Manzano, students, received \$250 each, for a total of \$750, from the Office of Sponsored Programs to present at the Southwestern Association of Criminal Justice Conference in San Antonio, Texas.

Scholarly and Academic Activity

Dr. Kavish published his article, "Scaffolding Rubrics to Improve Student Writing: Preliminary Results of Using Rubrics in a Sociology Program to Enhance Learning and Mechanical Writing Skills for Societies."

Dr. Kavish was interviewed for Veronica Freeman's (of BestColleges.com) article – "One Size Doesn't Fit All: Choosing a College Major."

He presented his paper, "In the Pool without a Life Jacket: Status Fragility and Criminological Academics With a Felony Conviction," at the Convict Criminology For the Future – International Conference in Padua, Italy.

Organized Research

Dr. Kavish received \$615.93 to fund his project, "Interactionist Labeling: Femininity, Masculinity, and Juvenile Delinquency," which purchased a statistical program that analyzes latent variables constructed from ordered-categorical measures which was used to examine the relationship between masculinity, femininity, and juvenile delinquency.

Dr. Howard Kurtz

Department of Social Sciences



Supplemental Assistance

Dr. Kurtz received \$500 from the Office of Sponsored Programs to make a presentation at the Society for Utopian Studies Conference in Berkley, California.

Dr. Denise Landrum-Geyer

Department of Language and Literature



Scholarly and Academic Activity

Dr. Landrum-Geyer presented her paper, “This Center Brought to You by [insert your logo here]: Writing Center Administration in the Corporate University,” at the Twelfth Biennial Thomas R. Watson Conference on Rhetoric and Composition in Louisville, Kentucky.

Dr. ChihChen Sophia Lee

Department of Music



Supplemental Assistance

Dr. Lee received \$500 from the Office of Sponsored Programs to perform at the American Music Therapy Association in Dallas, Texas.

Dr. Scott Long

Pharmaceutical Sciences



Organized Research

Dr. Long, partnered with Dr. Lisa Appeddu, was allocated \$2,460 in Organized Research Funds in order to determine whether perception of non-nutritive sweetener (NNS) aftertaste correlates to actual aftertaste, to determine if perception correlates to genes that determine taste, and choice of consumption. The following is the student poster generated from this project:

Nguyen, Khoa (Dr. Lisa Appeddu and Dr. Scott Long). 2019. Nutritive Sweetener Aftertaste: A Review of its Causes, Prevalence, and Perception. Oklahoma Research Day. *Abstract Mathematics and Science.Pharmacy.10*.

Dr. Phillip Martinson

Department of Music



Supplemental Assistance

Dr. Martinson received \$500 from the Office of Sponsored Programs to perform at the National Flute Association Convention in Orlando, Florida.

Organized Research

Dr. Martinson was awarded \$2,000 to fund his project, “New Music commission: Trombone and Flute Duets for Future Generations,” which commissioned two new musical compositions for trombone and flute duo.

Dr. Shelley Martinson

Department of Music



Extramural Activity

The **Kirkpatrick Foundation** awarded **\$750** to fund “**SWOSU Flute Day**” from October 1, 2019 - October 27, 2019. Flute Day features a guest artist recital, regional and all-state etude clinics, Flute Olympics, clinics, flute choir, and one-on-one mini-lessons available for attendees. The purpose of this grant was for public service.

Supplemental Assistance

Dr. Martinson received \$500 from the Office of Sponsored Programs to perform at the Florida Flute Convention in Orlando, Florida.

Jennifer Stephenson and Tiffany Piper, students, received \$250 each, for a total of \$500, from the Office of Sponsored Programs to perform at the National Flute Association Convention in Orlando, Florida.

The SWOSU Flute Choir received from the Office of Sponsored Programs \$906 to perform at the Oklahoma Flute Society Flute Fair in Norman, Oklahoma.

Organized Research

Dr. Martinson received \$480 to fund her project, “A Collaborative Commission: Initiating New Music for Flute Choir,” which represents a research partnership, not only between faculty and students, but also composer and performers.

Dr. David Martyn

Department of Chemistry and Physics



Supplemental Assistance

Dr. Martyn received \$369.78 from the Office of Sponsored Programs to make a presentation at the 256th American Chemical Society National Meeting in Boston Massachusetts.

Dr. Holly McKee

Department of Business



Organized Research

Dr. McKee was awarded \$408 to fund her project, "Survey Monkey Software Annual Fee," which provides analysis tools for Business and Computer Science Faculty.

Dr. Regina McGrane

Department of Biological Sciences



Extramural Activity

The **“Travel to ASM Microbe 2019”** grant from **OK-INBRE** was awarded for the amount of **\$2,000** from June 1, 2019 – June 5, 2019. This grant provided Dr. McGrane and her student an opportunity to travel to San Francisco, CA to attend and present their research at the American Society for Microbiology.

OK-INBRE awarded **\$6,000** to fund the project, **“Characterizing the impact of *Pseudomonas syringae*”** from **May 1, 2019 – August 30, 2019**. The goal of this project is to support research investigating the antimicrobial activities of phytopathogens biosurfactants and to provide significant insights into the potential use of syringafactin as a preventative agent against food borne illness.

The **American Society for Microbiology Missouri Valley Branch** awarded **\$1,650** to fund the **“Peggy Cotter Travel Award: Travel to ASM Microbe 2019,”** from **June 1, 2019 – June 30, 2019**. This grant gave Dr. McGrane and her student, Kade Ezell, the opportunity to travel to San Francisco, California and present their research at the American Society for Microbiology meeting.

Supplemental Activity

Dr. McGrane received \$500 from the Office of Sponsored Programs to present at the American Society of Microbiology Microbe 2019 in San Francisco, California.

Jennifer Abshire, Kade Ezell, students, received \$250, for a total of \$500, from the Office of the Sponsored Programs to make a presentation at the American Society of Microbiology Microbe 2019 in San Francisco, California.

Dr. Regina McGrane (Cont.)

Scholarly and Academic Activity

Dr. McGrane presented the following posters at the Beta Beta Beta South Central Regional Convention in Cedar Hills, Texas:

- Ice Nucleation: A look at evolutionary significance beyond frost injury;
- Investigating the effects of varying surface conditions on phytopathogens;
- Looking beyond the leaf: Understanding the impacts of motility on *Pseudomonas syringae* seed colonization;
- Rhizobacteria promote plant-growth in winter wheat in Oklahoma Soil;
- Understanding *Pseudomonas syringae* repulsion of competitors in the phyllosphere; and
- Motility of *Pseudomonas syringae* pv. *Syringae* B728a as means of colonization of above ground plant tissues.

Dr. McGrane also reviewed the article, “Quorum sensing inhibitor potential of trans-anethole against *Pseudomonas aeruginosa*,” for the *Journal of Applied Microbiology*.

She also reviewed, “Seeing the Light: The Roles of Red- and Blue-Light Sensing in Plant Microbes,” for the *Annual Reviews of Phytopathology*.

Organized Research

Dr. McGrane was received \$2,001.34 to fund her project, “Investigating the role of *Pseudomonas syringae* motility factors in multiple stages of plant colonization,” which evaluated the hypothesis that *P. syringae* uses motility factors during transmission to seeds and stems and that *P. syringae* biosurfactants not only enhance motility but also repel, inhibit, and kill competitors.

Dr. Veronica McGowan

Center for Excellence in Teaching and Learning



Scholarly and Academic Activity

Dr. McGowan presented, "Proposal Submitted" at the Speaker Series at Faculty Resource Center at Southern Nazarene University in Bethany, Oklahoma.

Ms. April Miller

Oscar McMahan Library



Scholarly and Academic Activity

Ms. Miller presented her poster, “History Mysteries,” at the Oklahoma Library Association Annual conference in Weatherford, Oklahoma.

Ms. Miller presented her poster “Battle of Washita: SWOSU Libraries Honors 150th Anniversary,” at the Oklahoma Library Association Conference in Tulsa, Oklahoma.

Also at the Oklahoma Library Association Conference in Tulsa, Oklahoma, she presented, “Using the Library for Recruitment and Retention,” at a workshop.

Ms. Miller was elected as Secretary by the Oklahoma Library Association – University and Colleges Division in Norman, Oklahoma. She was appointed to the following positions in Norman, Oklahoma: OU-SLIS Alumni Advisory Executive Board; Grey House/Salem Press/ HW Wilson Editorial Advisory Executive Board; and the OU-SLIS Outstanding Alumni Award Committee.

Doug Misak

Business Enterprise Center



Extramural Activity

The Regents Business Partnership Excellence Award is designed to highlight successful partnerships and to further cultivate the higher learning environment through State Regents' Economic Development Grants. The “**Partnership Recognition Program FY19**” awarded \$500 by the **Oklahoma State Regents for Higher Education** from March 12, 2019 – June 30, 2019. The purpose of this grant is public service.

Mr. Frederic Murray

Al Harris Library



Scholarly and Academic Activity

Mr. Murray presented his paper, "Scholarly Literacy & Publishing: Strategies for Graduate Programs," at the Academy of Business Research Conference in Weatherford, Oklahoma.

Dr. Jonna Myers

Department of Business



Supplemental Assistance

Dr. Myers received \$500 from the Office of Sponsored Programs to make a presentation at the 2018 American Association for Adult and Continuing Education at Myrtle Beach, South Carolina.

Organized Research

Dr. Myers was awarded \$10,600 to fund her project, "Using Internal Marketing to Augment Professional Development Initiatives," which investigates Human Resource and marketing Collaboration opportunities in the field of Professional Development.

Ms. Jamie Novey

Upward Bound



Extramural Activity

Upward Bound (UB) is a federally funded program that provides fundamental support to participants in their preparation for college entrance. It provides opportunities for participants to succeed in their precollege performance and ultimately in their higher education pursuits. During the school year, students attend monthly academic meetings and participate in an online tutoring program. During the summer, students live on the SWOSU campus and participate in a full schedule of academic, social (including sports), and cultural activities for six weeks. During the school year and summer, students will also receive personal and academic counseling, assistance with financial aid and college admission applications, preparation for the ACT, an ACT fee waiver, will visit college campuses, and will be exposed to professional careers and mentors. SWOSU Upward Bound was funded by the following grants:

“Upward Bound Grant Proposal” U.S. Department of Education for the amount of \$416,686 from September 1, 2018 – August 31, 2019.

“Upward Bound Grant Proposal” U.S. Department of Education for the amount of \$435,437 from September 1, 2019 – August 31, 2020.

Dr. Steven O'Neal

Department of Biological Sciences



Scholarly and Academic Activity

Dr. O'Neal published his article, "Comparison of UVB Effects on Growth and Induction of UVB Screening Compounds in Isolates of Metaphytic Algae from Temperate Zone Streams and Ponds" to the *Journal of Phycology*.

Dr. Patsy Parker

Department of Business & Technology



Organized Research

Dr. Patsy Parker received \$3,000 to fund her project, Leadership Challenge: Conflict and Camaraderie,” which provided opportunities for students in the field of gender and leadership methods.

Dr. Edna Patatanian

Department of Pharmacy Practice



Scholarly and Academic Activity

Dr. Patatanian reviewed the following articles for the American Association of Colleges of Pharmacy (AACP) in Oklahoma City, Oklahoma:

- “Challenges for Pharmacy Schools in Nigeria in Establishing a PharmD Degree Curriculum”;
- “Assessing Student Ability to Compound Accurate Nonsterile Preparations in Three Laboratory Structures”;
- “An International Collaboration on Sustainable Workforce Development and Implementation of a Doctor of Pharmacy Program”;
- Skills Lab Curriculum Impact on Student Confidence to Navigate Health Records and Present Patients”; and
- Trends in Educational Research in Pharmacy Experiential Education in USA: A literature Evaluation Study

Dr. Patatanian served as a guest speaker, presenting, “A Review of Bisphosphonates and Statins,” to the Mercy Better Breathers Group in Oklahoma City, Oklahoma.

She also facilitated the “Women Networking Session” workshop at the American Society of Health-System Pharmacists (ASHP) Summer Meeting in Denver, Colorado. While in Denver, Dr. Patatanian was appointed as the State Delegate at the ASHP Summer Meeting. She moderated the Introductory Pharmacy Practice Experience Program (IPPE) Discussion Board for IPPE/Pharm3213 in Oklahoma City, Oklahoma.

Dr. Patatanian reviewed the article, “What medications and Factors are Associated with Polypharmacy?: A Cohort Study,” for *Hospital Pharmacy Journal* in Oklahoma City, Oklahoma.

Dr. Edna Patatanian (Cont.)

For the *Annals of Pharmacotherapy*, Dr. Patatanian reviewed the article, “Drug Induced Restless Leg Syndrome,” in Oklahoma City, Oklahoma.

She also reviewed “Diagnosis, Assessment, and Management of Depression in Patients with Heart Failure” for *The Annals of Pharmacotherapy*.

Dr. Patatanian also reviewed the article, “Pharmacy Service in Solid Organ Transplantation,” for the *American Journal of Health-System Pharmacy*.

Dr. Patatanian also reviewed, “Multiple Antihyperglycemic Drug Use is a Predictor of Undernutrition among Older Adults with Type 2 Diabetes,” for *Diabetes Therapy Journal Article* in Oklahoma City, Oklahoma.

She also reviewed the manuscript, “Study on Relationship between ApoE Gene Polymorphism and Type 2 DM with Its Complications.”

For the American Association of Colleges of Pharmacy, Dr. Patatanian reviewed the following abstracts:

- “Incorporating Community Engaged Learning in Pharmacy Elective courses to Enhance Student Learning About Minoritized Populations;”
- “Evaluation of an OSCE to Assess Student Interprofessional Skills and Behaviors;”
- “Impact of an Advanced Cardiovascular Pharmacotherapy Elective on APPE Preparedness;”
- “Student Perceived Competency in Using and HER Following Implementation of a Learning-Based HER Platform;”
- “Effect of Observation vs. Active Participation on Self-Reported Interprofessional Collaborative Behaviors;”
- “Validity of a Gaming Perception Tool for Educational Escape Rooms across Multiple Institutional Contexts;” &
- “Transferability of an Educational Escape Room: Student Outcomes from two Institutions”

Dr. Anne Pate

Department of Allied Health



Extramural Activity

SWOSU was awarded the grant, **“Addressing food insecurity and assessing resource awareness among undergraduate university students in Western Oklahoma”** by OK-INBRE for the amount of **\$1,996 from** November 1, 2018 – April 30, 2019. Food insecurity is an issue that has been studied at the national level for some time. Food insecurity is defined in a 2015 report by the U.S. Department of Agriculture as a household having limited access to adequate food due to a lack of money or other resources. Based on the results of research conducted during the 2017-2018 academic year, our research team identified that one in three Southwestern Oklahoma State University students has either low or very low food insecurity. These results have prompted the development of a resource guide to address food insecurity that will be distributed to the student body via a variety of methods. The purpose of this grant was for travel to NCUR 2019 at Kennesaw State University.

Organized Research

Dr. Pate received \$1,320 to fund her project, **“Health Statistics Research Posters,”** which printed research posters for students presenting at Oklahoma Research Day.

Ms. Pamela Rollins

Department of Language and Literature



Scholarly and Academic Activity

Ms. Rollins served as a guest speaker on “Strategies to Build Positive Online Engagement in the Classroom” at the North Central Texas College in Corinth, Texas.

She also presented her paper, “Roundtable: The University brought to you buy...,” at the Regional Conference on college Composition & Communication in Denver, Colorado.

Ms. Rollins presented her paper, “Terms and Conditions May Apply: Re-envisioning Syllabus Discourse,” at the 50th Annual college English Association Conference in New Orleans, Louisiana.

Organized Research

Ms. Rollins received \$1,219.70 to give her the opportunity to present her research project, “Terms and conditions May Apply: Re-envisioning Syllabus Discourse,” at the 50th Annual college English Association Conference and to attend the 2019 National Conference for Undergraduate Research.

Ms. Jessica Salmans

Department of Language and Literature



Organized Research

Ms. Salmans received \$1,976, which gave her the opportunity to travel to Washington, D.C. and research her project, "Holocaust Theatre/Hans Hinkel Research," at the United States Holocaust Memorial Museum and the College Park Branch of the National Archives.

Dr. Hardeep Saluja

Department of Pharmaceutical Sciences



Scholarly and Academic Activities

Dr. Saluja served as a mentor for an Industrial Visit for P1.2 Students at Cosmetic Specialty Labs in Lawton, Oklahoma.

Dr. Mapopa Sanga

Center for Excellence in Teaching and Learning



Supplemental Assistance

Dr. Sanga received \$500 from the Office of Sponsored Programs to make a presentation at the association for Educational Communications and Technology Convention in Kansas City, Missouri.

Scholarly and Academic Activity

Dr. Sanga published his article, "Going electronic: Analyzing the intricacies of transitioning from print at a fast-growing southern African university," for *The Online Journal of Distance Education and e-Learning*.

Dr. Sanga published his article, "Using the Situated Cognition Construct to Close Gap Between Learning and Use," to the CETL Correspondence Newsletter.

Dr. Sanga published his article, "Getting to Master Online Teaching: Insights from Purposefully Organized Course Development Training," to the *Quarterly Review of Distance Education*.

Tugba Sevin

Department of Language and Literature



Organized Research

Dr. Sevin received \$480 which gave her the opportunity to travel to Istanbul, Turkey and present her paper, “Identity Enrichment through Language and Cultural Interactions,” at the SOCIOINT 2019 International Conference on Education, Social Sciences and Humanities.

Dr. Horrick Sharma

Department of Pharmaceutical Sciences



Extramural Activity

Metabolic reprogramming is considered as one of the hallmarks of cancer. Warburg effect reflects a switch from OSPHOS to aerobic glycolysis and is one of the fundamental changes that occur in many tumor cells. The goal is to develop novel inhibitors of LDHA and identify dual LDHA-LAT 1 targeting conjugates, using a linker or a prodrug-like approach. It is hypothesized that the dual-acting compounds of the proposal can target two critical metabolic dependencies of cancer cells, the Warburg effect and amino acids mediated cell growth, to exert synergistic anticancer effect. This project was funded by the Idea Network for Biomedical Research Excellence through the National Institutes of Health for, **“Developing of Small Molecules Targeting Cancer Metabolism (Year 1)”** for the amount of **\$118,673**. May 1, 2019 – October 31, 2021.

Dr. Randall Sharp

Department of Pharmacy Practice



Scholarly and Academic Activity

Dr. Sharp published his review of the article, “Comparing the Impact of Prescription Omega-3 Fatty Acid Products on Low Density Lipoprotein Cholesterol,” in *The American Journal of Cardiovascular Drugs* in Oklahoma City, Oklahoma.

Dr. Sharp reviewed the article, “OM3-FA Bioavailability with Low Fat Diet in Patients with Past Hypertriglyceridemia-Induced Pancreatitis,” for *The Journal of Lipid Research* in Oklahoma City, Oklahoma.

He also presented, “Assessing the Impact of Scubitril/valsartan on Cardiovascular Remodeling Parameters,” at the Midyear Meeting of the American Society of Health System Pharmacists 2018 in Anaheim, California.

Dr. Sharp reviewed the article, “Combating Opioid Addiction and Abuse- 2 Ways to Effectively Intervene in the Cycle of Addiction Through Pharmacogenomics,” for the *Journal of the American Pharmacists Association* in Oklahoma City, Oklahoma.

He also reviewed the Article, “Anti-HMGCR Myopathy Presenting with Acute Systolic Heart Failure,” for the *British Medical Journal* in Oklahoma City, Oklahoma.

Dr. Vijay Somalinga

Department of Biological Sciences



Extramural Activity

OK-INBRE awarded \$2,200 to fund the project, **“Ti Biochemical and Structural Characterization of beta carbonic anhydrases from an emerging pathogen, *Rhodococcus hoagie*”** from May 21, 2019 – July 12, 2019. The goal of this project is to elucidate the structure of *R. hoagie* β -CA's and to delineate its role in *R. hoagie* pathogenesis.

OK-INBRE awarded \$6,000 to fund the project, **“Identification and characterization of novel virulence factors from *Streptococcus sanguinis*, an opportunistic pathogen,”** from May 1, 2019 – August 30, 2019. **This goal of this project is biochemical and structural characterization of β -carbonic anhydrase from *S. sanguinis* and to elucidate its role in subacute infective endocarditis.**

Organized Research

Dr. Somalinga received \$2,286.14 to fund his project, **“Utilizing psychrophilic carbonic anhydrase for industrial carbon capture and biofuel production,”** which researches using enzymes from extremophiles in microalgae to enhance growth and biofuel production.

Dr. Dennis Thompson

Department of Pharmaceutical Sciences



Scholarly and Academic Activity

Dr. Thompson reviewed the following abstracts for the American College of Clinical Pharmacy Annual Meeting, 2018 in Weatherford, Oklahoma.

- Prevalence of Potential Major Drug Interactions in Ambulatory Care Setting;
- The Role of Pharmacists in the Treatment of Direct Acting Antiviral Agents of Hepatitis C;
- Analysis of risk Factors for serotonin induced serotonin syndrome;
- Evaluation of trastuzumab's cardiotoxicity in the treatment on HER2 positive cancer patients;
- Prevalence of potential Drug-Drug Interaction Alerts in a Newly Implemented Commercial Computerized Provider Order Entry System: Override Appropriateness and Adverse Drug Events;
- The Impact of an Electronic Best Practice Alert to Prevent Iatrogenic Hyperkalemia;
- A drug-drug interaction study evaluating the effect of multiple doses of ranitidine administered once daily or staggered twice daily on the pharmacokinetics of safety of neratinib in healthy subjects;
- Risk Factors Associated with Adverse Drug Reactions among Critically Ill Pediatric Patients;
- Preference and adherence to once –monthly versus once weekly bisphosphonates in patients with osteoporosis: A systematic review and meta-analysis;
- The Effect of sulfonylureas with concomitant with antimicrobials on hypoglycemia in patients with type 2 diabetes mellitus;
- Risk of adverse events with long-term phenazopyridine use for radiation cystitis; and
- Management of dipeptidyl peptidase-4 inhibitor-associated angioedema in type 2 diabetes patients: A systematic review

Dr. Dennis Thompson (Cont.)

Dr. Thompson also reviewed the article titled, “A Review of the Clinical Toxicology of Yew Poisoning,” for the *Annals of Pharmacotherapy*.

He also presented his posters, “Publication Records and Bibliometric Indices of Canadian and U.S. Pharmacy Deans” and “Bibliometric Analysis of Pharmacology Publications: A State-by-State Evaluation,” at the American Association of Colleges of Pharmacy Annual Meeting 2018 in Boston, Massachusetts.

Dr. Thompson published his article, “Bibliometric Analysis of Pharmacology Publications in the United States: A State-Level Evaluation,” in the *Journal of Scientometric Research*.

He also reviewed the article, “A review of lacosamide exposures as reported to U.S. poison centers,” for the *Annals of Pharmacotherapy*.

In the *American Journal of Pharmaceutical Education*, Dr. Thompson published his article, “Publication Records and Bibliometric Indices of Pharmacy School Deans.”

He also published “A Review and Assessment of Drug-Induced Thrombocytosis” and “Bumetanide for Autism Spectrum Disorder in Children: A Review of Randomized Controlled Trials” in the *Annals of Pharmacotherapy*.

Dr. Thompson reviewed “Short-Term Impact of Altmetric Attention Scores on Citation Counts in Selected Major Pharmacy Journals” for the *Journal of the American College of Clinical Pharmacy*.

His article, “Publication records and bibliometric indices of Canadian and U.S. pharmacy deans,” was published in the journal, *Pharmacy Education*.

Mr. Kenneth Thompson

Department of Language and Literature



Scholarly and Academic Activity

Mr. Thompson presented his paper, “Visions of Apocalypse: The Pedagogy of Sight in Cormac McCarthy’s *The Road*,” at the 40th Annual Southwest Popular/American Culture Association Conference in Weatherford, Oklahoma.

Dr. Richard Tirk

Department of Music



Extramural Activity

The purpose of the SWOSU Jazz Festival is to help develop a better appreciation and understanding of jazz among the university faculty, public school teachers, students, and the general public in Oklahoma. Through the SWOSU Jazz Festival, the goal is to give students, teachers, and the public an opportunity to hear and talk to internationally-known jazz artists, and give the university students and faculty an opportunity to perform with outstanding jazz artists. The SWOSU Jazz Festival was funded by the following grants:

“49th Annual SWOSU Jazz Festival” – City of Weatherford Hotel/Motel Tax Advisory Commission - **\$3,000** – January 2, 2019 – April 30, 2019

“50th Annual SWOSU Jazz Festival” – City of Weatherford Hotel/Motel Tax Advisory Commission - **\$3,000** February 1, 2020 – April 30, 2020 - \$9,000

“50th Annual SWOSU Jazz Festival” – Oklahoma Arts Council Grant - **\$20,000** – February 1, 2020 – April 30, 2020

Supplemental Assistance

Dr. Tirk received \$500 from the Office of Sponsored Programs to perform at the 44th International Trumpet Guild Conference in Miami, Florida.

Dr. Matthew Tracy

Department of Music



Supplemental Assistance

Dr. Tracy received \$500 from the Office of Sponsored Programs to make a presentation at the T2 Duo Performance at the University of Arkansas in Fayetteville, Arkansas and the American Single Reed Summit in Kirksville, Missouri.

Dr. Wayne Trail

Department of Chemistry and Physics



Extramural Activity

Annually SWOSU holds SWOSU Physics Day where students are invited from area high schools to visit campus for a half-day of physics demonstrations, activities, career talks, and other fun. Because western Oklahoma is large and sparsely populated, there are a large number of schools that cannot participate; therefore, through the use of portable telescopes and the dark western Oklahoma night skies, students in those towns can be reached. Over the decades, the SWOSU Physics department has accumulated telescopes that are no longer usable, except for the optical systems and mirrors. Optical components are taken from old, broken, and unusable telescopes and dobsonian (altitude/azimuth) telescopes are hand-built. Approximately four or five portable telescopes (ranging from 6 inches to 16 inches) will be built and used for recruiting in remote towns and schools with evening viewing sessions. This project, titled **“Dobtometry: Helping Western Oklahoma See the Stars”**, was funded by the **American Institute of Physics** for the amount of **\$500** from January 1, 2019 – May 31, 2019.

Dr. Todd Wigger

Department of Business



Scholarly and Academic Activity

Dr. Wigger presented, "Using Feature Films as an Instructional Medium to Teach Organizational Behavior, Leadership and Management," at the Association of Leadership Educators Annual Conference in Weatherford, Oklahoma.

He also published his article, "Admiral Frederic C. Billard: The Man Who Dramatically Enhanced and Enlarged the Fledgling Coast Guard Intelligence Program," to the *American Intelligence Journal*.

Dr. Wigger published his article, "An Autoethnographic Exploration of Social Identity and Leadership within a Motorcycle Club, in the *International Journal of Motorcycle Studies*.

His article, "The development and maintenance of social identity: An autoethnographic study," was published in *Sage Research Methods Cases in Business and Management*.

Dr. Wigger presented, "Teaching Through the Cinematic Arts," at the Management and Transformational Learning Conference in Weatherford, Oklahoma.