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# LETTER FROM THE

# PRESIDENT



Welcome to Oklahoma Research Day!

Fourteen years ago representatives from Oklahoma's regional universities met to plan this day for the first time. Since then the event has grown in scope and participants to what you will see here today, a statewide meeting recognized by the Council on Undergraduate Research as one of the largest and most unique of its type in the nation. It is an event that promotes cross-campus and cross-disciplinary research and scholarly

work among all institutions of higher education in the state.

What a memorable day this will be for advancing knowledge and showcasing creativity in all academic disciplines. Students and faculty mentors will make presentations demonstrating that research, creative and scholarly activity is alive and well on Oklahoma's campuses. Oklahoma Research Day is the largest demonstration of creativity in the state and each of you is part of this effort.

Faculty members engage students in research, creative and scholarly work because they know that these are activities that will connect students with their discipline and thus encourage them to stay in college, complete a degree and graduate. The new knowledge that results adds to the excitement and to the resolve to further pursue their interests. It is a proven pathway to life-long learning.

It is not necessarily easy to involve students in scholarly work. In fact, it

is often challenging to find the time, resources and support required. But annually at Oklahoma Research Day, we are reminded by the enthusiasm, the anxious faces, and the pervasive sense of accomplishment, that these investments are worth the effort.

While you are on the UCO campus today, I invite you to explore beyond the Wellness Center and the Nigh University Center. Take a moment to visit our Center for Transformative Learning or

the Forensic Science Institute. You are invited to visit any of our classroom buildings, museums, studios and laboratories. I think you will find that UCO is redesigning and redefining itself both visually and academically. We are here to help students learn by providing transformative experiences so that they may become productive, creative, ethical and engaged citizens.

Welcome to UCO and thank you for gathering here on this special day.

Sincerely,

A handwritten signature in black ink, appearing to read "Don Betz". The signature is stylized and fluid.

Don Betz, Ph.D.  
President



# COUNCIL ON RESEARCH FOR REGIONAL UNIVERSITIES

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University of Central Oklahoma

Dr. Tony Wohlers  
Director, Academic Research  
Cameron University

# SCHEDULE

## OF EVENTS

8:00 – 9:00am  
**Registration**  
Hamilton Field House

**Breakfast**  
Wellness Center

8:30 – 11:45am  
**Poster Presentations**  
Wellness Center

12:30 – 3:00pm  
**Banquet and Keynote Speech**  
Nigh University Center

**Welcome**  
Dr. William Radke, University of Central Oklahoma

**President Address**  
Dr. Don Betz, University of Central Oklahoma

**Chancellor Address**  
Dr. Glen D. Johnson, Oklahoma State Regents for  
Higher Education

**Keynote Introduction**  
Dr. Gregory M. Wilson, University of Central Oklahoma

**Keynote Address**  
Dr. Elizabeth Ambros, Council on Undergraduate Research

# SPONSORS

Thank you to the following sponsors: Oklahoma State Regents for  
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for Stimulating Competitive Research (EPSCoR) - National Science

Foundation; Oklahoma Idea Network for Biomedical Research  
Excellence (INBRE) - National Institutes of Health; Oklahoma  
Regional Universities



#### PLANNING COMMITTEE

Dr. Gregory M. Wilson  
Danielle O'Brien, Pamela McDown,  
Liliana Renteria, Blair Goforth

#### OKLAHOMA RESEARCH DAY LOGO DESIGN

Ms. Joanna Meachum  
InkTank, Department of Design,  
University of Central Oklahoma

#### COMMUNICATION AND MARKETING

Prof. Ruki Ravikumar, Department of Design,  
University of Central Oklahoma  
Prof. Lanie Gabbard, Department of Design,  
University of Central Oklahoma  
Prof. Amy Johnson, Department of Design,  
University of Central Oklahoma

#### VENUE LOGISTICS

Ms. Amanda Tucker, UCO Conference and Events Services,  
Nigh University Center  
Mr. Mark Herrin, Assistant Vice President, Wellness Center  
Ms. Danielle Dill, Assistant Director, Wellness Center  
Dr. Scott Williams, Senior Associate Athletic Director/  
Operations, Hamilton Field House

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Jeff Buchanan, Integrity Promotional Solutions

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Will Ciston, Vital Signs of Edmond  
Michael Mudd, DPS Printing  
Alex Albers, Impressions Printing & Copying  
Neal Zucker, Southern Tailors  
Karen McCaslin, FastSigns

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Mr. Raul Martinez, Director UCO Transportation  
and Parking Services  
UCO Safety and Transportation Services, Emergency  
Management, and Police Services

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Mr. Julio Mata, UCO Office of Information Technology  
Jump Technology Services  
Cory's Audio Visual

#### CATERING

Mr. Bruce Barringer, Director, Chartwells  
Ms. Kaycee Matthews, Catering Director, Chartwells

#### VOLUNTEERS

Aissa Amadou, Shandise Brown, Julie Byer, Laura Caroselli,  
Sarah Combs, Chris Cone, Jill Devenport, Jennifer Foster,

Jicheng Fu, Vicki Garlitz, Keith Higa, Mary Huffman,  
Donna Kearns, Tamra Kitsmiller, Vaidya Krishnan, Markus  
Loke, Lynda Loucks, Pam Lumen, Tracy Morris, Deni  
Napier, Jandy Newman, Chris O'Brien, Holly Osburn, James  
Powers, Beverly Prosser, Mary Beth Qualls, Heather Rabalais,  
Katie Reichardt, Rosario Riley, Tracey Romano, Sue Ryan,  
Steve Smith, Kayla Tindle, Alina Tuladhar, Will Unsell, Cia  
Verschelden, Roxanne Vidal, Cayt Walls, Melissa White and  
numerous University of Central Oklahoma Students!

We could not have hosted such a successful event without  
the help from so many on campus, we hope we did not  
forget anyone!



OKLAHOMA RESEARCH DAY 2013 • UCO • EDMOND



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# ACKNOWLEDGEMENTS

# KEY TO ABSTRACT NUMBERS



## Business Administration 01

01 Accounting  
02 Business  
03 Economics  
04 Finance  
05 Information Operations  
Management  
06 Management  
07 Marketing

## Education & Professional Studies 02

01 Education  
02 Family Science  
03 Health Studies  
04 Nursing  
05 Physical Education  
06 Professional Teacher Education  
07 Radio and Television

## Fine Arts & Design 03

01 Art  
02 Dance  
03 Design  
04 Multimedia Design  
05 Music  
06 Theatre Arts

## Liberal Arts 04

01 Communication  
02 English  
03 Ethnic Studies  
04 Foreign & Modern Languages  
05 Geography  
06 Geology  
07 History  
08 Political Science  
09 Sociology

## Mathematics & Science 05

01 Agriculture  
02 Animal Science  
03 Biology  
04 Botany  
05 Chemistry  
06 Computer Science  
07 Criminal Justice  
08 Engineering  
09 Environmental Science  
10 Forensic Science  
11 Genetics  
12 Kinesiology  
13 Mathematics  
14 Optometry  
15 Pharmacy  
16 Physics  
17 Psychology  
18 Statistics  
19 Zoology



# BUSINESS ADMINISTRATION



## 01. ACCOUNTING

01.01.01

### The Influence of Employment Subsidies on the Hiring Decisions of American Companies

Richard Alltizer - University of Central Oklahoma  
Thomas Lewis - University of Central Oklahoma

01.01.02

### Tax Fraud: A Summary of Judicial Findings

Richard Alltizer - University of Central Oklahoma  
Kathleen Kunkle - University of Central Oklahoma

01.01.03

### Retirement Saving: What You Should Know Before You Start Your Big Girl Career

Richard Alltizer - University of Central Oklahoma  
Lisa Anderson - University of Central Oklahoma

01.01.04

### Tax Fraud

Mary Sheets - University of Central Oklahoma  
Lori Smith - University of Central Oklahoma  
Jamie Schmidt - University of Central Oklahoma

01.01.05

### Hobby vs. Business

Mary Sheets - University of Central Oklahoma  
Eno Anwanwan - University of Central Oklahoma  
Gia Madole - University of Central Oklahoma

01.01.06

### Proposed Elimination of the Oklahoma State Income Tax

Mary Sheets - University of Central Oklahoma  
Jennifer Tucker - University of Central Oklahoma



01.01.07

**America's Looming Retirement Problem**

Mary Sheets - University of Central Oklahoma  
Micah Zink - University of Central Oklahoma  
Sara Zink - University of Central Oklahoma

01.01.08

**Hierarchy of GAAP vs. IFRS--The Case of Bankruptcy Accounting**

Daniel Haskin - University of Central Oklahoma  
Teresa Haskin - University of Central Oklahoma

01.01.09

**Critical Thinking by Advanced Accounting Students**

Daniel Haskin - University of Central Oklahoma

01.01.10

**Earned Income Tax Credit: Does it Serve its Purpose?**

Mary Sheets - University of Central Oklahoma  
Kelsey Thomas - University of Central Oklahoma  
Crystal Medell - University of Central Oklahoma

01.01.11

**ERP Consolidation Accounting Serial Exercise**

Zane Swanson - University of Central Oklahoma  
Siegfried Chan - University of Central Oklahoma

01.01.12

**Transforming the Graduate Business Experience**

Kathleen Kunkle - University of Central Oklahoma  
Suzanne Clinton - University of Central Oklahoma  
Robert Epstein - University of Central Oklahoma

01.01.13

**Revenue Accounting in the Oil and Gas Industry**

Jane Calvert - University of Central Oklahoma  
Stephen Rose - University of Central Oklahoma

01.01.14

**An Analysis of Online Learning Problems and Pitfalls in Accounting Curriculum**

Jane Calvert - University of Central Oklahoma

01.01.15

**The Fair Tax Concept**

Bambi Hora - University of Central Oklahoma  
Rhodora Laughter - University of Central Oklahoma

01.01.16

**Understanding the Buffett Rule**

Bambi Hora - University of Central Oklahoma  
Jacob Reynolds - University of Central Oklahoma

01.01.17

**Limited Liability Companies: Choose Your Tax Fate**

Bambi Hora - University of Central Oklahoma  
Christopher Ryan - University of Central Oklahoma

01.01.18

**Online Education and Cheating**

Jane Calvert - University of Central Oklahoma

01.01.19

**The Impact of Executive Compensation on Employee Morale**

Mary Teal - University of Central Oklahoma

**02. BUSINESS**

01.02.01

**The Perceived Impact of Personal Finance Principles on Students Enrolled in the Two-Year Alternative Curriculum at the Academy of Contemporary Music**

Rodney Applewhite - University of Central Oklahoma  
Allen Arnold - University of Central Oklahoma  
Victoria Campbell - University of Central Oklahoma

01.02.02

**Oklahoma Panel Study of Entrepreneurial Dynamics**

Joshua King - University of Central Oklahoma

01.02.03

**2012 Southern Cone Study Tour—Brazil**

Tomas de los Santos - University of Central Oklahoma

01.02.04

**Southern Cone Study Tour—Argentina**

Tomas de los Santos - University of Central Oklahoma

**03. ECONOMICS**

01.03.01

**The Market Powers of Blue Cross Blue Shield**

Cody Woods - University of Central Oklahoma

01.03.02

**An Economic Analysis of Wind Capacity**

Cody Woods - University of Central Oklahoma  
Zhen Zhu - University of Oklahoma

01.03.03

**Why not moving up while moving out?**

Kuang-Chung Hsu - University of Central Oklahoma

01.03.04

**An Assessment of Teaching Economics with The Simpsons**

Shiouyen Chu - Southwestern Oklahoma State University  
Christopher Shane - Southwestern Oklahoma State University



01.03.05  
**Preference Reversal Phenomenon**  
Hung-Ju Chien - Oklahoma State University

#### 04. FINANCE

01.04.01  
**An Exploratory Multi-Campus Survey on Student Study Habits**  
Marty Ludlum - University of Central Oklahoma  
Kara Ludlum - Cameron University  
Brittany Smith - University of Central Oklahoma

01.04.02  
**Personal Finance and the Millennial Generation: A Cooperative Collaboration**  
Allen Arnold - University of Central Oklahoma  
Victoria Campbell - University of Central Oklahoma  
Rodney Applewhite - University of Central Oklahoma  
Patrick Harrel - University of Central Oklahoma

01.04.03  
**Financial Analysis and the Statement of Cash Flows**  
Vaidya Krishnan - University of Central Oklahoma  
R. Barry Ellis - University of Central Oklahoma  
Allen Arnold - University of Central Oklahoma

01.04.04  
**The Value of the PEG Ratio**  
Teri Allen - Southwestern Oklahoma State University

01.04.05  
**The Study of US Trade Deficit against China**  
Puskar Bhurtel - East Central University  
Sangam Magar - East Central University  
Zhimin Wang - East Central University

01.04.06  
**Impact of Sustainability on Performance: Case Study**  
Julia Kwok - Northeastern State University  
Elizabeth Rabe - Northeastern State University

01.04.07  
**Student Learning Outcomes Assessment: An Example From a Finance Course**  
Julia Kwok - Northeastern State University  
Ernst Bekkering - Northeastern State University

#### 05. INFORMATION OPERATIONS MANAGEMENT

01.05.01  
**Flipping Classrooms In Higher Education**  
Chris Graff - University of Central Oklahoma  
Joselina Cheng - University of Central Oklahoma

01.05.02  
**Student Learning Outcomes Assessment: Evaluate the Group, Not the Student**  
Ernst Bekkering - Northeastern State University  
Julia Kwok - Northeastern State University

01.05.03  
**Students Get Their Information From Where?**  
Tim Bridges - University of Central Oklahoma

01.05.04  
**Data Mining for Identifying Students' Difficulties in Conceptual Modeling**  
I-Lin Huang - Langston University  
J. Hsu - Langston University

01.05.05  
**Student Learning Outcomes Assessment: An Example From a Business Communications Course**  
Ernst Bekkering - Northeastern State University  
Julia Kwok - Northeastern State University

01.05.06  
**Electronic Signatures: The Time Has Come**  
Ernst Bekkering - Northeastern State University  
David Madden - Northeastern State University

#### 06. MANAGEMENT

01.06.01  
**The Demand-side Dynamics of within-industry Variation in Entrepreneurial Entry**  
Lalit Manral - University of Central Oklahoma

01.06.02  
**Best Practices for Not-for-Profit Thrift Shops**  
Trang Nguyen - University of Central Oklahoma  
Robert Epstein - University of Central Oklahoma  
Suzanne Clinton - University of Central Oklahoma

01.06.03  
**Ned Practices and Role Stressors**  
Jeffrey Slattery - Northeastern State University

#### 07. MARKETING

01.07.01  
**Explaining the Role of Associative Networks in the Inoculation Process**  
Jeanetta Sims - University of Central Oklahoma  
Jalea Shuff - University of Central Oklahoma  
Sarah Neese - University of Central Oklahoma  
Peggy Anderson - University of Central Oklahoma  
Cierra Maddox - University of Central Oklahoma



01.07.02

**Exploring the Dialectical Tensions Experienced by Racioethnic Female Executive Directors of Nonprofit Organizations**

Jeanetta Sims - University of Central Oklahoma  
Cierra Maddox - University of Central Oklahoma

01.07.03

**What Social Media Expectancy Discrepancies Reveal about Prospective Employee Perceptions and Attitudes**

Jeanetta Sims - University of Central Oklahoma  
Sarah Neese - University of Central Oklahoma  
Anthony Murray - University of Central Oklahoma

01.07.04

**A Price-Based Approach to the Dialectics in African American Female Entrepreneur Experiences**

Jeanetta Sims - University of Central Oklahoma  
Cierra Maddox - University of Central Oklahoma  
Atoya Sims - University of Central Oklahoma  
Sarah Neese - University of Central Oklahoma  
Jalea Shuff - University of Central Oklahoma  
Peggy Anderson - University of Central Oklahoma

01.07.05

**Exploring the Dialectical Tensions Negotiated by African American Male Entrepreneurs**

Jeanetta Sims - University of Central Oklahoma  
Peggy Anderson - University of Central Oklahoma

01.07.06

**Should My Class Go Social? How can Social Media Help Improve Learning**

Thanh Tran - University of Central Oklahoma  
Kanghyun Yoon - University of Central Oklahoma

01.07.07

**Measuring Brand Equity in Accounting Service Industry**

Kanghyun Yoon - University of Central Oklahoma  
Feng Ouyang - University of Central Oklahoma

01.07.08

**Linking Types of Loyalty Programs to Firms' Performance**

Kanghyun Yoon - University of Central Oklahoma  
Ha Minh - University of Central Oklahoma

01.07.09

**The Effects of Multi-Product Bundling on Consumers' Reference Price and Brand Perception**

Rui Xu - University of Central Oklahoma  
Thanh Tran - University of Central Oklahoma

# EDUCATION



## AND PROFESSIONAL STUDIES

### 01. EDUCATION

02.01.01

**The Wingman Project: School-Based Communication with Grandparents**

Meghan Eliason - Southwestern Oklahoma State University  
Kerri Kearney - Oklahoma State University

02.01.02

**Retention and Graduation at the 11 Public Universities with the Worst Graduation Rates, 2004-2010**

Jacob Jardel - Cameron University  
Brent Chappell - Cameron University

02.01.03

**Researching and Learning from Racio-ethnic Authentic Educators with Oklahoma Ties**

Ed Cunliff - University of Central Oklahoma  
Jeanetta Sims - University of Central Oklahoma  
Torrie Abramo - University of Central Oklahoma  
Prasanna Prasai - University of Central Oklahoma  
Stephanie Pera - University of Central Oklahoma

02.01.04

**The Two Predictors of Americans' Attitudes Toward Illegal Immigration: Perceived Threat and National In-Group Identification:**

Yaser Dorri - University of Central Oklahoma  
Cathy Berry - University of Central Oklahoma  
Fatemeh Sabeghi - University of Central Oklahoma

02.01.05

**Humor as an exposure stimuli: A physiological investigation of the response to different types of humor in the socially anxious.**

Chad McCoy - University of Central Oklahoma  
Sean McMillan - University of Central Oklahoma  
Bethany Barnett - University of Central Oklahoma  
Jade Porter - University of Central Oklahoma  
Deon Hall - University of Central Oklahoma  
Caleb Lack - University of Central Oklahoma





02.01.06  
**Transforming for the Sake of Transformative Learning Through HIP Programs**  
Ed Cunliff - University of Central Oklahoma  
Jeff King - University of Central Oklahoma

02.01.07  
**Custodial Grandparents and Emotional Well-Being: The Lingering Effects of Reassuming the Parenting Role**  
Braden Cary - Northeastern State University  
Yungfei Kao - Northeastern State University

02.01.08  
**Perceptions of Collegiate Student Athletes and Brain Injury**  
Chas Riden - University of Central Oklahoma  
Malinda Green - University of Central Oklahoma  
Gary Howard - University of Central Oklahoma  
Mark Maddy - University of Central Oklahoma

02.01.09  
**Subliminally Primed Social Exclusion's Effect on Reaffiliation Behaviors**  
Erin McReynolds - University of Central Oklahoma  
Robert Mather - University of Central Oklahoma

02.01.10  
**The Role of Culture in Vocabulary Consolidation Strategies used by English Language Learners (ELLs)**  
Banu Bilen - University of Central Oklahoma

02.01.11  
**Can access to school transparency expenditure data required by SB1633 of the 2010 Oklahoma Legislature reveal statistically significant relationships between school expenditures and student outcomes?**  
Howard Kuchta - Cameron University  
Kelly McClure - Cameron University

02.01.12  
**Conversing On A Mobile Phone versus In-Person: The Impact of Reduced Attention On Flicker Change Detection Paradigm**  
Cindy Chia - University of South Australia

02.01.13  
**Expectations and Motivations of Alternately Certified Teachers**  
Erin Fullenwider - University of Central Oklahoma  
Mike Nelson - University of Central Oklahoma

02.01.14  
**Who Graduates High School in Oklahoma?**  
Sara Trivari - Cameron University  
Katherine Heitner - Cameron University

02.01.15  
**Social Categorization and the Cross-Race Effect: A Dual Process Exploration**  
Sarah Dailey - Cameron University  
Curt Carlson - Cameron University

02.01.16  
**Comparing Student Satisfaction between Online and Blended (Hybrid) Courses**  
Deborah Hyde - Northeastern State University  
Lawrence Wybrant - Northeastern State University

02.01.17  
**The Student Support Services (SSS) Project**  
Evan Hartwell - University of Central Oklahoma  
Patrick Harrel - University of Central Oklahoma

02.01.18  
**Chickasaw Nation: Analysis of Participation in Tribal Government**  
Daniel Tollett - East Central University  
Monty Stick - East Central University  
Adrian John - East Central University  
Brian Sanders - East Central University

02.01.19  
**Building a Communications Framework in the Age of Social Media**  
Kelly McClure - Cameron University

2.01.20  
**Perceptions of Preparedness of Alternately Certified Teachers**  
Kimberly Van Aken - University of Central Oklahoma  
Mike Nelson - University of Central Oklahoma

02.01.21  
**Transformational Learning Behaviors**  
Hailey Hinkle - University of Central Oklahoma  
Lois Bryan - University of Central Oklahoma  
Thomas Hancock - University of Central Oklahoma

02.01.22  
**Difference in GPA with Major and Type of Sport in Division II Student Athletes**  
Chelsea Smith - University of Central Oklahoma

02.01.23  
**Assessment of Transformative Learning Principles in Undergraduate Fitness Assessment Class**  
Chelsea Smith - University of Central Oklahoma  
Greg Farnell - University of Central Oklahoma



## 02. FAMILY SCIENCE

02.02.01

### **How Play Affects the Brain!**

Jennifer Turner - University of Central Oklahoma

02.02.02

### **Factors That Deter Young Adults From Pursuing Higher Education**

Maria Perry - University of Central Oklahoma

Lori Beasley - University of Central Oklahoma

02.02.03

### **Matching Service Learning Opportunities to Diverse Student Populations**

Glee Bertram - University of Central Oklahoma

02.02.04

### **Communication Perceptions Related to Life-Threatening Illness in a Relationship: A Q Methodology Study**

Jeanetta Sims - University of Central Oklahoma

02.02.05

### **Epigenetic Analysis Quantifying Behavior Health Medical Services of Oklahoma**

Summer Loveless - University of Central Oklahoma

02.02.06

### **Group Differences in Relationship Education Programming Preferences**

Holly Shockley - University of Central Oklahoma

Brandon Burr - University of Central Oklahoma

Jalea Shuff - University of Central Oklahoma

## 03. HEALTH STUDIES

02.03.01

### **Exploring the Relationship between Trunk Adiposity and Trunk Flexibility**

TaNiqua Ward - University of Central Oklahoma

Melissa Powers - University of Central Oklahoma

02.03.02

### **Nintendo® Wii Fit™ Balance and Cognitive Function in Older Adults**

Kristin Bogda - University of Central Oklahoma

02.03.03

### **Effects of Yoga on Balance Confidence**

Kelsey Hubble - University of Central Oklahoma

Melissa Powers - University of Central Oklahoma

Jacilyn Olson - University of Central Oklahoma

Ed Cunliff - University of Central Oklahoma

02.03.04

### **Effects of Active Video Games (Wii Fit™) on Senior Adult Balance, Fitness and Mood**

Darla Fent - University of Central Oklahoma

Cynthia Murray - University of Central Oklahoma

Caitlin Little - University of Central Oklahoma

Kayla Garver - University of Central Oklahoma

Jacob Todd - University of Central Oklahoma

02.03.05

### **Reproducibility and reliability of optic nerve head measurements in normal eyes evaluated by Cirrus HD-OCT**

Megan Kirkpatrick - Northeastern State University

Jessica Colpitt - Northeastern State University

02.03.06

### **Repeatability of Free Form Customization Measurement Technology**

Randolph Fincher - Northeastern State University

Jason Koschmeder - Northeastern State University

Alan McKee - Northeastern State University

02.03.07

### **An Investigation of the Food Environment in Carter County**

Kevin Fink - Oklahoma State University

Deana Hildebrand - Oklahoma State University

Jonathan Yuhas - Oklahoma State University

Nancy Betts - Oklahoma State University

Christi Schultz - Oklahoma State University

Mendy Spohn - Oklahoma State University

02.03.08

### **Entering the Flow of Labyrinth Research**

C. Diane Rudebock - University of Central Oklahoma

Katja Marquart - University of Central Oklahoma

Kay Sandor - University of Central Oklahoma

Lea Goode-Harris - University of Central Oklahoma

Marion Dabney - University of Central Oklahoma

02.03.09

### **Effects of Embrocation oil on Time to Exhaustion During Treadmill Running**

Kyler Daugherty - University of Central Oklahoma

Brady Redus - University of Central Oklahoma



02.03.10

**Cost Effectiveness of the RPS Adeno Detector Plus**

Mindi Combs - Northeastern State University  
Linda Ray - Northeastern State University  
Earlena McKee - Northeastern State University  
Thomas Salmon - Northeastern State University

02.03.11

**Emotional Suppression and Mimicry between Sexes**

Kiersten Durning - University of Central Oklahoma

02.03.12

**Comparison of Load Carriage Foot Force Distribution With and Without Hiking Pole Use**

Bert Jacobson - Oklahoma State University

02.03.13

**Comparison of the Testing of Oblique Axes in Confrontation Visual Field Testing Versus the Traditional Method**

Elizabeth Fieser - Northeastern State University  
Kaylaen Dittmer - Northeastern State University  
Spencer Johnson - Northeastern State University  
Thomas Salmon - Northeastern State University

02.03.14

**Perspectives: Oklahoma City METRO Transit Commuter Input on Transportation Services through a PhotoVoice Project**

Brie Brumfield - University of Central Oklahoma

02.03.15

**The Effects of Boot Camp Training on Body Composition**

Emily Fasnacht - University of Central Oklahoma

02.03.16

**Determining a Relationship Between Sleep Quality and Academic Performance in First Year University Students**

Meagan Carter - University of Central Oklahoma

02.03.17

**Mu Suppression in the Premotor Cortex for Recognition and Inference**

Jennifer Hancock - University of Central Oklahoma  
Robert Mather - University of Central Oklahoma

02.03.18

**Emotional Intelligence Differences in Athletic Training, Physical Education, and Health Promotion Undergraduate Students**

Jennifer Volberding - Oklahoma State University  
Theresa Brown - Oklahoma State University  
Tim Baghurst - Oklahoma State University  
John Sellers - Oklahoma State University

02.03.19

**Health Behaviors Leading to a Higher Risk of Morbidity, Mortality, and Cardiovascular Disease Among People From India and Pakistan Living in the United States for at least 10 Years**

Amreen Hemani - University of Central Oklahoma  
C. Diane Rudebock - University of Central Oklahoma

02.03.20

**Understanding the Impact of a Service Learning Project on Students' Transformative Learning Experience**

Rachelle Franz - University of Central Oklahoma

02.03.21

**Evaluation of a Fitness-based Intergenerational Transformative Learning Experience**

Terry Taylor - University of Central Oklahoma  
Matthew Blair - University of Central Oklahoma  
Melissa Powers - University of Central Oklahoma  
Jacilyn Olson - University of Central Oklahoma  
Darla Fent - University of Central Oklahoma

02.03.22

**A Service Learning Project Connects Dietetic Students with the Realities of Teenage Mothers and Their Children**

Tawni Holmes - University of Central Oklahoma  
Sarah Rakowski - University of Central Oklahoma  
Katherine Powell - University of Central Oklahoma  
Rachel Hill - University of Central Oklahoma  
Jenny Bilodeau - University of Central Oklahoma

02.03.23

**Correlation Between Speed and Strength in an Un-Weighted Straight Punch**

Zachery Scurry - University of Central Oklahoma

02.03.24

**The Effects of Plyometric Exercises on Vertical Jump in Male and Female Basketball Athletes**

Toral Desai - University of Central Oklahoma  
Patrick Lawrence - University of Central Oklahoma



02.03.25

**Differences In Eating Schedules, Sitting Time, Steps per Day, and Amount of Physical Activity Between Staff and Faculty**

Alaura Ervin - University of Central Oklahoma  
Greg Farnell - University of Central Oklahoma

02.03.26

**Knowledge of Physical Activity on Campus**

TaNiqua Ward - University of Central Oklahoma  
Melissa Powers - University of Central Oklahoma

02.03.27

**Does the Use of the FITBIT Accelerometer Affect Physical Activity Levels?**

Ryan Westrup - University of Central Oklahoma  
Greg Farnell - University of Central Oklahoma

**05. PHYSICAL EDUCATION**

02.05.01

**The Effect of Gender and Town Size on Stress Levels of University Freshman**

Mark Giese - Northeastern State University  
Kassie Kerns - Northeastern State University

02.05.02

**Making the Grade in Physical Education: Why Effort and Participation Should Not Count**

Tim Baghurst - Oklahoma State University

02.05.03

**Successful use of pokéwalker: one girl's story**

Yoonsin Oh - Cameron University

02.05.04

**The Energy Expended While Playing the Xbox Kinect**

Isaac Henry - University of Central Oklahoma  
Greg Farnell - University of Central Oklahoma

**06. PROFESSIONAL TEACHER EDUCATION**

02.06.01

**Physicians' Perspectives on Fluctuating Hearing Loss and Speech-Language Development**

Tina Deaton - University of Central Oklahoma

02.06.02

**The Impact of the Timing of Feedback on Student Retention**

Mark Maddy - University of Central Oklahoma  
Linda Rittner - University of Central Oklahoma

02.06.03

**Mapping the Education of a Pre-Service Urban Teacher**

Diana Meek - University of Central Oklahoma  
Mike Nelson - University of Central Oklahoma


02.06.04

**Comparative Study of Two French Painters David and Delacroix**

Maria Chacon - University of Central Oklahoma  
Claire Westlund - University of Central Oklahoma



# FINE ARTS AND DESIGN



## 01. ART

03.01.01

### **The Nation of Islam in Visual Culture**

Mickayla Fisher - University of Central Oklahoma

## 02. DANCE

03.02.01

### **Dancing With Technology: Creating New Interactions Between Music Composition and Dance Choreography with Movement Controlled Sound and Video in the Collaborative Performance, Network**

Aaron Robinson - University of Central Oklahoma

## 03. DESIGN

03.03.01

### **Comparative Technology Assessments for Curricular Reform in Graphic Design The Letterpress Lab Project**

Amy Johnson - University of Central Oklahoma

03.03.02

### **Letterpress and The Digital Era**

Amanda Horton - University of Central Oklahoma

03.03.03

### **Technology meets Type: An explorative study of cases where technology has affected the design of typography and vice versa**

Lanie Gabbard - University of Central Oklahoma

Miranda Lloyd - University of Central Oklahoma

03.03.04

### **Continuing the Investigation: Applying Bloom's Taxonomy as the Framework for Advanced Illustration Studio Objectives**

Keith Webb - University of Central Oklahoma

Rukmini Ravikumar - University of Central Oklahoma

03.03.05

### **Restructuring of Interior Design Education**

Kevin Steiner - University of Central Oklahoma

03.03.06

### **Think Different Making a Case for Teaching Design Thinking as a Part of the Undergraduate University Core Curriculum**

Amy Johnson - University of Central Oklahoma

Catherine Webster - University of Central Oklahoma

03.03.07

### **The Language of Critique**

Rukmini Ravikumar - University of Central Oklahoma

Krystal Davranoglu - University of Central Oklahoma

03.03.08

### **A Hand in Design**

Joanna Meachum - University of Central Oklahoma

Rukmini Ravikumar - University of Central Oklahoma

03.03.09

### **The Abstract Visual Elements in Graphic Design**

Zixuan Zhu - Southwestern Oklahoma State University

Xiaomiao Wang - Southwestern Oklahoma State University

03.03.10

### **Sense of Touch in Graphic Design**

Chenming Jiang - Southwestern Oklahoma State University

Xiaomiao Wang - Southwestern Oklahoma State University

03.03.11

### **Kamrooz Aram: People just want the ones that look good**

Erica Eppler - East Central University

03.03.12

### **The "Technicolor City" Project: Collaboration Demystified**

Amy Jacobson-Peters - University of Central Oklahoma

03.03.13

### **The Use of Letterpress Printing as an Aid in Graphic Design Entrepreneurship**

Stephen Treadwell Jr. - University of Central Oklahoma

Amy Johnson - University of Central Oklahoma

03.03.14

### **Interior Design and Historic Preservation – Allies in Environmentally Responsible Design**

Valerie Settles - University of Central Oklahoma



## 05. MUSIC

03.05.01

### **Comprehensive History of Western Music Education**

Sion Honea - University of Central Oklahoma

Annette Nashire - University of Central Oklahoma

Emerald Lessley - University of Central Oklahoma

03.05.02

### **Italian Renaissance Vocal Improvisation**

Sion Honea - University of Central Oklahoma

03.05.03

### **Ornaments: A Historical, Chronological Digest**

Sion Honea - University of Central Oklahoma

03.05.04

### **Center for Historical Performance**

Sion Honea - University of Central Oklahoma

Tess Remy-Schumacher - University of Central Oklahoma

03.05.05

### **An Evening with Louis XIV**

Sion Honea - University of Central Oklahoma

Tess Remy-Schumacher - University of Central Oklahoma

John Clinton - University of Central Oklahoma

03.05.06

### **A Residency With Pulitzer-Prize-Winning Composer Michael Colgrass: Transformative Collaboration and Interaction between Students, Faculty, and Audiences through Creativity and Performance**

Brian Lamb - University of Central Oklahoma

Amy Johnson - University of Central Oklahoma

John Shell - University of Central Oklahoma

Chelsea Maupin - University of Central Oklahoma

Elijah Levingston - University of Central Oklahoma

Travis Welborn - University of Central Oklahoma

Hannah Howard - University of Central Oklahoma

Ganbayar Gansukh - University of Central Oklahoma

03.05.07

### **Agréments du Chant: French Late Baroque and Early Classical Vocal Ornamentation According to the Primary Sources**

Emerald Lessley - University of Central Oklahoma

## 06. THEATRE ARTS

03.06.02

### **Lessac Centered BFA—Performance Program**

Daisy Nystul - University of Central Oklahoma

03.06.03

### **“To Us, It Wasn’t Code”; Decoding the Complexities of Collaboration**

Kathleen Hardgrove - Southeastern Oklahoma State University

03.06.04

### **Adaption and application of Medieval and Renaissance European Martial Arts Manuscripts for the creation of safe, non-violent, and tangible historical technique for replication upon the modern stage.**

Erick Wolfe - University of Central Oklahoma



# LIBERAL ARTS

## 01. COMMUNICATION

04.01.01

### **Pretty Feet, Cupcake Dresses and Flippers: Destructive Competition on TLC's "Toddlers & Tiaras"**

Amy Aldridge Sanford - Northeastern State University  
Molly Turner - Northeastern State University

04.01.02

### **"Pimping Off the People": Designing Lottery Legislation**

Kristopher Copeland - Northeastern State University

04.01.03

### **Shattering the Glass Ceiling into Hillaryland: How Hillary Rodham Clinton Challenged the Double Bind with Transactional Feminist Leadership**

Molly Turner - Northeastern State University

04.01.04

### **A Health Care Campaign for Breast Cancer: An Early Detection Plan for University Students**

Callie Carrell - Southeastern Oklahoma State University

04.01.05

### **What I Would Do about Abusive, Harassing, and Hateful Speech on College Campuses: A Proposal**

Nicole Murphy - Southeastern Oklahoma State University

04.01.06

### **Real Men Don't Cry?: Public Apologies and Its Symbolic Meanings in Taiwan**

Hsin-I Sydney Yuch - Northeastern State University

04.01.07

### **Channel One: Assessing the Quality of Adolescent News**

David Scott - Northeastern State University  
Mike Chanslor - Northeastern State University

04.01.08

### **Exploring News Media Contributions to Political Attitudes**

Ashton Faries - Southeastern Oklahoma State University  
Aubrey Tarantine - Southeastern Oklahoma State University  
Paige Throneberry - Southeastern Oklahoma State University

04.01.09

### **Exploring News Media Contributions to Political Participation**

Tyler Slawson - Southeastern Oklahoma State University

04.01.10

### **Argument Quality: An Examination of The Washington Post's Pulitzer Prize Winning Journalism on The Democracy Exportation Project in Yemen**

Melissa Haworth-Cox - Southeastern Oklahoma State University  
Brittani Young - Southeastern Oklahoma State University

04.01.11

### **1980s: A Timeline of Better Home and Gardens Advertisements featuring Cigarettes**

Hope Zachary - Southeastern Oklahoma State University  
Katie Rings - Southeastern Oklahoma State University  
Clint Byley - Southeastern Oklahoma State University

04.01.12

### **1970s: A Timeline of Better Home and Gardens Advertisements featuring Lysol**

Haley Ellison - Southeastern Oklahoma State University  
Paige Throneberry - Southeastern Oklahoma State University  
Paige Adams - Southeastern Oklahoma State University

04.01.13

### **Argument Quality: An Examination of the Boston Globe's Pulitzer Prize Winning Journalism on Stem Cell Research**

Jordan Hedrick - Southeastern Oklahoma State University  
Chelsea Neal - Southeastern Oklahoma State University

04.01.14

### **Argument Quality: An Examination of The New York Times' Pulitzer Prize Winning Journalism on Food Safety**

Evan Wakefield - Southeastern Oklahoma State University  
Callie Carrell - Southeastern Oklahoma State University

04.01.15

### **Managing Change: Faculty Perceptions of a Transformative Learning Initiative**

Danielle Hernandez - University of Central Oklahoma  
Christy Vincent - University of Central Oklahoma

04.01.16

### **Analysis of Barack Obama's 2013 Inaugural Address (Through the Lens of Dramatism)**

Troy Ward - Southeastern Oklahoma State University

04.01.17

### **A Health Care Campaign: Preventing the Spread of Disease in the Workplace**

Kristi Ryan - Southeastern Oklahoma State University



04.01.18  
**Cultural Strategies of Organizing: Secondary Socialization for Organizations in the 21st Century**  
Christopher Rudick - Northeastern State University

04.01.19  
**A Health Care Campaign: Combating Diabetes in the Native American Community**  
Troy Ward - Southeastern Oklahoma State University

04.01.20  
**“She is Not Good Enough”: Media Beauty in College Students’ Eyes**  
Ekanem Ekpenyong - Cameron University

04.01.21  
**Problem-Based Learning: The Three Valley Museum as the Public Relations Classroom**  
Shannon McCraw - Southeastern Oklahoma State University

04.01.22  
**Deepwater Horizon: A Criticism of BP’s Response**  
Colton Rowe - Cameron University

04.01.23  
**An Oasis in the Wasteland: An Analysis on Fred Rogers’ Appeal to the United States Senate**  
Colton Rowe - Cameron University

## 02. ENGLISH

04.02.01  
**American Indian Literature: The Emerging, Established, and Iconic Voices of Generation X**  
Timothy Petete - University of Central Oklahoma  
Shay Rahm-Barnett - University of Central Oklahoma

04.02.02  
**Necessary Authorship: Examining Michel Foucault’s Author-Function Theory and Go Ask Alice**  
Lindsey Huckaby - Cameron University

04.02.03  
**Literary Archetypes: the Relationship of Gilgamesh and Enkidu**  
Wesley Jones - Cameron University

04.02.04  
**Reading in Girl Scouts Affiliated Public Housing Sites**  
Alexandra Bohannon - University of Central Oklahoma

04.02.05  
**Alexander’s Excellent Adventures: An Examination of Cultural Influence on Adaptations of “The Romance of Alexander”**  
Rose Welch - Cameron University

04.02.06  
**Good Versus Evil: Why Harry Potter Won**  
Casey Brown - Cameron University

## 03. ETHNIC STUDIES

04.03.01  
**Chinese Tea and its Culture**  
Athena Gonzalez - Cameron University

## 04. FOREIGN AND MODERN LANGUAGES

04.04.01  
**Changing lives through short-term study abroad. A transformative experience?**  
Maria Teresa Moinette - University of Central Oklahoma

04.04.02  
**La Salle de Classe sur scène: Evolving cinematic depictions of French schools.**  
Catherine Webster - University of Central Oklahoma

## 05. GEORGRAPHY

04.05.01  
**Discourses of the Mother Road: Geographic Themes Along Eastern and Central Route 66**  
Adam Payne - University of Central Oklahoma  
Sara Hawk - University of Central Oklahoma  
Douglas Hurt - University of Central Oklahoma

## 07. HISTORY

04.07.01  
**Hyphenated Citizen: How American Federation of Labor Organizer Clemente Idar Fought for Labor and Citizenship Rights for Mexicans and Mexican Americans in South Texas, 1918-1934**  
Stephanie Diaz - University of Central Oklahoma

04.07.02  
**Women’s Lives in New Netherland**  
Megan Stockton - Cameron University

04.07.03  
**Decolonizing the Histories of Helen Hunt Jackson (1830-1885) and Gertrude Simmons Bonnin (1876-1938)**  
Barbara Bilek - University of Central Oklahoma





04.07.04

**2012 Oklahoma Civic Health Index: Civic Skills and Voter Education**

Alyce Vigil - University of Central Oklahoma  
Lauren Craig - University of Central Oklahoma  
Danielle Hernandez - University of Central Oklahoma  
Patti Loughlin - University of Central Oklahoma  
Janelle Grellner - University of Central Oklahoma

04.07.05

**The Big Break: Race and Gender in Pawnee Bill's Wild West Show, 1888-1913**

Alyce Vigil - University of Central Oklahoma

04.07.06

**Gold Dust Sisterhood: The Shadowy World of Prostitution in Mining Towns of Southwest Colorado, 1880-1920**

Sherri Duncan - University of Central Oklahoma

04.07.07

**The Barefaced Tory: Sir Dudley North and the Consolidation of Monarchical Power**

Suzanne Farmer - Northeastern State University

04.07.08

**Through the Frozen Mountain: The Vosges Campaign of World War II, October 1944 to January 1945**

Darrell Bishop - University of Central Oklahoma

**08. POLITICAL SCIENCE**

04.08.01

**Americans at War: The Political Impact of Photography**

Tarron Vogt - East Central University

04.08.02

**Local Election's Fight Against Low Voter Turnout: The Battle of Ada**

Marsha Coyle - East Central University  
Will Irwin - East Central University  
Stephen Vines - East Central University

04.08.03

**Native American Indian Women In Tribal Politics**

Donna Iti Tupa - East Central University

04.08.04

**Icumbency: How The Delegate Becomes a Trustee**

Wesley Robertson - East Central University

04.08.05

**Little Miss vs. Mr. Man: A look at Women and Men in the Media During Congressional Campaigns**

Kaylin Cullum - East Central University

04.08.06

**Education and Politics: The Battle Against Information Technology**

Stephen Vines - East Central University

04.08.07

**How Politics and Corruption Affect Society: A Comparative Analysis**

Elis Matoshi - East Central University

04.08.08

**The Thirteenth Juror- the Impact of the Media on the American Criminal Jury Trial System**

Dan Brown - Southwestern Oklahoma State University

04.08.09

**The Use of Precedent in US Supreme Court Oral Argument**

Iva Asllani - East Central University

04.08.10

**Canton Lake: Legal Contract vs. Moral Compass**

Will Robinson - Southwestern Oklahoma State University

04.08.11

**The Impact of Private Prisons in Oklahoma**

Darral Roark - Southwestern Oklahoma State University

04.08.12

**Teacher's Opinion Repression And Its Implications On Students' Political Ideology**

Ibrahim Nour - East Central University

04.08.13

**Eugene "Bull" Connor: The Inadvertent Effects of his Reign of Terror**

Brock Marshall - Southeastern Oklahoma State University

04.08.14

**Fetal and Maternal Rights in the Media: Abortion in Fictional Television and Cable News**

Samuel Merchant - University of Central Oklahoma

04.08.15

**Owning the Issues: Variation of Issue Salience among States**

Shannon Bridgmon - Northeastern State University

04.08.16

**Women in Politics: a Look at the Rise and Fight of Women, in Politics, in the Middle East Following the Arab Spring**

Natasha Wood - Cameron University

04.08.17

**Corruption of public officials in the state of Oklahoma**

Davi Peetoom - Southwestern Oklahoma State University



## 09. SOCIOLOGY

04.09.01

### **Don't Leave, Stay in School: Developing a Predictive Model of Discontinuance**

Maxwell Kwenda - Cameron University

04.09.02

### **Greek Life and its Effect on Persistence of College Students: A Comparison of Inter-Fraternal Council/PanHellenic and National Pan-Hellenic Council**

Patrick Harrel - University of Central Oklahoma

Allen Arnold - University of Central Oklahoma

Victoria Campbell - University of Central Oklahoma

04.09.03

### **Recidivism Reduction Programs in Vermont and Beyond**

Elizabeth Maier - University of Central Oklahoma

04.09.04

### **Exiting the Life: Understanding Desistance From Methamphetamine**

Shannon Jackson - University of Central Oklahoma

Rashi Shukla - University of Central Oklahoma

Kathryn Letourneau - University of Central Oklahoma

Elaine Bartgis - University of Central Oklahoma

Amanda Gautier - University of Central Oklahoma

Emelia Chrisco - University of Central Oklahoma

04.09.05

### **Silent Victims-Children's Voices: An Exploratory Analysis of Children from Methamphetamine Homes**

Kathryn Letourneau - University of Central Oklahoma

Rashi Shukla - University of Central Oklahoma

Kathy Bell - University of Central Oklahoma

04.09.06

### **Demonic Possession: The Role View of the Self, Group Influence, and Ritualism Have on Those who are Dealing with Demons.**

Jessica Smith - University of Central Oklahoma

04.09.07

### **Social Workers Assessing Social Issues**

Kirsten Gothard - East Central University

04.09.08

### **The Influence of Counseling, Memorial Services for Suicide Victims, and Friendships with Suicide Victims on Suicidal Ideation and Suicide Attempts Among Adolescents**

Shawna Ward - University of Central Oklahoma

04.09.09

### **The Process of Burnout in Community Mental Health Counselors**

Alan Moore - Cameron University

04.09.10

### **An Analysis of State Park Self-sufficiency**

Hung-Ju Chien - Oklahoma State University

Kao-Wen (Grace) Chang - Oklahoma State University

Lowell Caneday - Oklahoma State University

04.09.11

### **Forensic Linking of Y-Chromosome DNA**

Tina Rainwater - Northeastern State University

Michael Wilds - Northeastern State University

04.09.12

### **The Hyper-Fear and Shocking Accounts of Sexual Assault to our Brothers and Sisters in Arms**

Pamela Mertens - Northwestern State University

Corye Stover - Northwestern State University



# MATHEMATICS AND SCIENCE

## 02. ANIMAL SCIENCE

05.02.01

### **Prediction of Heat Production in Boer Goats Using Heart Rate**

Arthur Goetsch - Langston University  
Ryszard Puchala - Langston University  
Amanda Manley - Langston University  
Terry Gipson - Langston University  
Tilahun Sahlu - Langston University

05.02.02

### **Factors Influencing Feed Intake, Growth Performance, and Behavior by Boer Wethers With an Automated Feeding System**

Arthur Goetsch - Langston University  
Yoko Tsukahara - Langston University  
Terry Gipson - Langston University  
Ryszard Puchala - Langston University  
Tilahun Sahlu - Langston University

05.02.03

### **Factors Affecting Behavior of Goats in Pens With Electric Strand Additions to Cattle Barb Wire Fence**

Arthur Goetsch - Langston University  
Yoko Tsukahara - Langston University  
Terry Gipson - Langston University  
Glenn Detweiler - Langston University  
Tilahun Sahlu - Langston University

05.02.04

### **Effects of (-)-Epigallocatechin-3-gallate (EGCG) on Viability of Haemonchus Contortus and Immune Responses in White Blood Cells of Goats In Vitro**

Arthur Goetsch - Langston University  
Rhongzhen Zhong - Langston University  
Zaisen Wang - Langston University  
Daowei Zhou - Langston University  
Tilahun Sahlu - Langston University

05.02.05

### **Spatial-Temporal Movements of Grazing Goats**

Arthur Goetsch - Langston University  
Terry Gipson - Langston University

05.02.06

### **The Effects of Level and Length of Supplementation on Leather Characteristics of Yearling Boer and Spanish Wethers**

Arthur Goetsch - Langston University  
Roger Merkel - Langston University  
Cheng-Kung Liu - Langston University  
Nick Latona - Langston University  
Anton El A'mma - Langston University

05.02.07

### **Efficacy of a Bovine Colostrum Replacement Product for Goat Kids**

Arthur Goetsch - Langston University  
Steven Hart - Langston University  
S Genova - Oklahoma State University  
D Haines - Langston University  
B Bah - Langston University

05.02.08

### **Effects of Level and Length of Supplementation on Body Weight and Harvest Characteristics of Yearling Boer and Spanish Wethers**

Arthur Goetsch - Langston University  
Roger Merkel - Langston University  
Terry Gipson - Langston University  
Zaisen Wang - Langston University

05.02.09

### **Ruminal Methane Emission by Boer and Spanish Does Supplemented with Garlic**

Arthur Goetsch - Langston University  
Ryszard Puchala - Langston University  
Zaisen Wang - Langston University  
Tilahun Sahlu - Langston University

05.02.10

### **Effects of Meat Goat Breed, Gender, and Conditions Before and Between Measures on Behavior in Pens with Barb Wire and Electric Fence Strands**

Arthur Goetsch - Langston University  
Yoko Tsukahara - Langston University  
Terry Gipson - Langston University  
Glenn Detweiler - Langston University  
Tilahun Sahlu - Langston University



05.02.11

**Anthelmintic Efficacy of Medicinal Herbs in Goats Infected with Nematode Parasites**

Arthur Goetsch - Langston University  
Rhongzhen Zhong - Langston University  
Zaisen Wang - Langston University  
Daowei Zhou - Langston University

05.02.12

**GIS Grid Analysis of Utilization of Adjacent Pastures by Two Herds of Goats**

Arthur Goetsch - Langston University  
Terry Gipson - Langston University  
Steven Hart - Langston University  
R Heinemann - Oklahoma State University

05.02.13

**Different Supplement Treatments for Lactating Meat Goat Does Grazing Grass/Forb Pastures**

Arthur Goetsch - Langston University  
Glenn Detweiler - Langston University  
Zaisen Wang - Langston University  
Jerry Hayes - Langston University  
Kesete Tesfai - Langston University  
Terry Gipson - Langston University

05.02.14

**Stocker cattle performance grazing wheat vs. three perennial cool season grasses (PCSG)**

William Phillips - Redlands Community College  
Jake Ward - Redlands Community College  
Michael Hatter - Redlands Community College

05.02.15

**Performance of Crossbred Heifers on Fescue Pastures with and without Protein Supplement**

William Phillips - Redlands Community College  
Anna Wolf - Redlands Community College  
Ashton Fisher - Oklahoma State University

**03. BIOLOGY**

05.03.01

**VSM-1's Role in Mitochondrial Localization**

Timothy Stein - Southwestern Oklahoma State University  
Andrea Holgado - Southwestern Oklahoma State University

05.03.02

**Analyzing Modulators of Vesicle Fusion and Synaptic Signaling**

Jamin Brown - Southwestern Oklahoma State University  
Elizabeth St. John - Southwestern Oklahoma State University  
Monte Stone - Southwestern Oklahoma State University  
Andrea Holgado - Southwestern Oklahoma State University

05.03.03

**Molecular Components Controlling Synapses in Nematodes**

Ashley Rodriguez - Southwestern Oklahoma State University  
Kody McKay - Southwestern Oklahoma State University  
Josiah Dittrich - Southwestern Oklahoma State University  
Melanie Graham - Southwestern Oklahoma State University  
Andrea Holgado - Southwestern Oklahoma State University

05.03.04

**Probing molecules involved in calcium-regulated membrane fusion**

Claudia Nkeih - Southwestern Oklahoma State University  
Nathan Bernhardt - Southwestern Oklahoma State University  
LaKesha Seals - Southwestern Oklahoma State University  
Andrea Holgado - Southwestern Oklahoma State University

05.03.05

**Genetically-Programmed Plant Marker Gene Deletion with Bxb1-att Site-Specific Recombination System**

Frank Yau - Northeastern State University  
Kevin Wang - Northeastern State University  
Mona Easterling - Northeastern State University

05.03.06

**Production of vampire bat saliva enzyme in transgenic plants for stroke treatment**

Mona Easterling - Northeastern State University  
Frank Yau - Northeastern State University  
Kevin Wang - Northeastern State University  
Maaike Mccutcheon - Northeastern State University

05.03.07

**Genetic Screening: Revealing the Components of the Cgi Reglataory System of Complementary Chromatic Acclimation in Fremyella Diplosiphon**

Terry Phillips - Langston University

05.03.08

**Use of Algae to Remove Cadmium from Aquatic Environments**

Carmen Cowo - University of Central Oklahoma  
Jim Bidlack - University of Central Oklahoma

05.03.09

**Evaluation of Solvents used to Extract Chlorophyll for Photovoltaic Cells**

Chelsie Johnson - University of Central Oklahoma  
Jim Bidlack - University of Central Oklahoma



05.03.10

**Continued Investigations on Use of Dragon's Blood Pigment in Photovoltaic Cells**

Brett Jones - University of Central Oklahoma  
Jim Bidlack - University of Central Oklahoma

05.03.11

**Use of Chloroplasts and Anthocyanin in Photovoltaic Cells**

Hunter Porter - University of Central Oklahoma  
Brian Tetreault - University of Central Oklahoma  
Jim Bidlack - University of Central Oklahoma

05.03.12

**Height and Biomass of a Barley - Soybean Rotation Subjected to Gibberellic and Jasmonic Acid Treatments**

Matthew Johnson - University of Central Oklahoma  
Hunter Porter - University of Central Oklahoma  
Anna Graves - University of Central Oklahoma  
Jonna Whetsel - University of Central Oklahoma  
Matthew Naifeh - University of Central Oklahoma  
Jim Bidlack - University of Central Oklahoma  
Dillon McDaniel - University of Central Oklahoma

05.03.13

**Increasing the Number of Native Americans in Natural Science and Medicine through Field Paleontology**

Tanya Chapman - East Central University

05.03.14

**Macroinvertebrate Assemblages and Water Quality Analysis of Spring Systems Associated with the Pontotoc Ridge Nature Preserve, Oklahoma**

Kambridge Brown - University of Central Oklahoma  
David Bass - University of Central Oklahoma

05.03.15

**Bioinformatics Analysis of Forkhead box P2 Gene**

Katlyn Varner - Northeastern State University  
Kathi McDowell - Northeastern State University  
Jacinta Maiorana - Northeastern State University  
Jan Byrd - Northeastern State University  
Sarah Cragun - Northeastern State University  
Omead Ghaeli - Northeastern State University  
Richard Smedley - Northeastern State University

05.03.16

**Genetic variation within striped skunks in the northern and southern areas of the United States.**

Sharonda Carson - University of Central Oklahoma

05.03.17

**Molecular evidence for hybridization between *Neotoma floridana* and *Neotoma micropus* in multiple areas of sympatry**

Michelle Haynie - University of Central Oklahoma  
Matthew Mauldin - University of Central Oklahoma  
Robert Bradley - University of Central Oklahoma

05.03.18

**Identification of Proliferative Myofibroblasts of Dupuytren's Contracture Cells**

Tobi Odejimi - University of Central Oklahoma  
Melville Vaughan - University of Central Oklahoma

05.03.20

**The Budding Yeast Mcm10 Interacts with Polymerase Epsilon and Functions during Leading Strand DNA Replication**

Brandy Fultz - Northeastern State University  
Chance Hendrix - Northeastern State University  
Sapna Das-Bradoo - Northeastern State University

05.03.21

**Eastern Medicine**

Stephen Cates - Northeastern State University

05.03.22

**Parasite Survey of the Sonoran Mud Turtle (*Kinosternon sonoriense*)**

Kristen Bliss - University of Central Oklahoma  
Wayne Lord - University of Central Oklahoma  
Paul Stone - University of Central Oklahoma

05.03.23

**A review: Acupuncture in Preventing Atrial Fibrillation**

Faith Fennell - Northeastern State University

05.03.24

**A Review on: Induced Pluripotent Stem Cells**

Lauren Tull - Northeastern State University

05.03.25

**Inhibition of Hepatitis C Virus (HCV) Replication and Cancer Stem Cell-Like Cell Markers by Resveratrol**

Charles Nguyen - University of Central Oklahoma  
Hari Kotturi - University of Central Oklahoma  
Naushad Ali - University of Central Oklahoma  
Asim Ali - University of Central Oklahoma  
Courtney Houchen - University of Central Oklahoma

05.03.26

**Molecular Scatology Using DNA Barcoding: Genetic Identification of Zoological Specimen and Diet Using Mitochondrial and Plastid Loci**

Diana Spencer - Tulsa Community College  
Hunter Bearden - Tulsa Community College  
Andrew Brown - Tulsa Community College  
Mang Chang - Tulsa Community College  
Bobby Daugherty - Tulsa Community College  
Minji Sohn - Tulsa Community College

05.03.27

**Quality Control of Undergraduate Researchers: A Cautionary Tale**

Paul Stone - University of Central Oklahoma  
Chelsea Smith - University of Central Oklahoma



05.03.28

**Effects of Lycopene in Watermelon Extracts on Tissue Culture Cells.**

Teresa Golden - Southeastern Oklahoma State University  
Cori Brannock - Southeastern Oklahoma State University  
Rebekah Ritchie - Southeastern Oklahoma State University

05.03.29

**Scleral Ossicle overlap patterns in testudines as evidence of evolutionary divergence and specialization**

Ali Siwecky - East Central University

05.03.30

**Light Rhythm Influence on the Growth and Perithecia Synthesis of Chaetomium Globosum, A Common Indoor Mold.**

Shubhra Poudyal - East Central University  
Charles Biles - East Central University

05.03.31

**Overview of Oriental Medicine “Ginseng”**

Faith Fennell - Northeastern State University

05.03.32

**The Response of Fusarium Oxysporum Growth and Conidia Production to Light Induction.**

Rajya Maharjan - East Central University  
Charles Biles - East Central University

05.03.33

**Investigation of the Large-Scale Functional Brain Networks Modulated by Acupuncture**

Zinar Simsek - Northeastern State University

05.03.34

**Neuroprotective Effects of a New Skin Care Formulation Following Ultraviolet Radiation**

Kimberly Pahsetopah - Northeastern State University

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**Antidiabetic Effect of Transgenic and Wildtype Safflowers**

Noor Ahmed - Northeastern State University

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**Investigation of differential habitat use by lizards in the Wichita Mountains**

Jetta Trammell - Cameron University  
Matthew Van Sant - Cameron University

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**Influence of historic coffee cultivation on terrestrial snail communities in the Luquillo Experimental Forest, Puerto Rico**

Craig Zimmermann - Rogers State University  
Renee Morse-Heenan - Rogers State University  
Nadia Kyrlylova - Oklahoma State University

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**The Five Second Rule**

Eric Paul - Southwestern Oklahoma State University  
Candice Fairman - Southwestern Oklahoma State University

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**Staphylococcus aureus and Methicillin-Resistant S. aureus Among Student Athletes and Non-Athlete Students**

Eric Paul - Southwestern Oklahoma State University  
Matthew Abbott - Southwestern Oklahoma State University

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**Sandwich ELISA Optimization**

Leila Ndomche Kondo - Oklahoma City Community College

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**Conservation Triage and Sonoran Mud Turtles in the Peloncillo Mountains of New Mexico**

Chelsea Smith - University of Central Oklahoma  
Paul Stone - University of Central Oklahoma

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**Buffer Manufacturing**

Alayna Trujillo - Oklahoma City Community College

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**Harvesting Foreign Chloroplasts for Acquired Phototrophy**

Stephen Fields - East Central University  
Brent Bidy - East Central University  
Taryn Young - East Central University  
Sadiksha Khadka - East Central University  
Josh Belcher - East Central University  
Angie Thapa - East Central University

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**A Review of Genetically Engineered Food**

Dillon Cave - Northeastern State University

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**Are Students Experiencing Transformative Learning?**

Alexandria Assaleh - University of Central Oklahoma  
Ryan Biggerstaff - University of Central Oklahoma  
Sarah Schatz - University of Central Oklahoma  
Tracy Morris - University of Central Oklahoma  
Cynthia Murray - University of Central Oklahoma

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**Moxibustion**

Cale Fulps - Northeastern State University



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**Transcriptome analysis of oxygen sensing in the model organism Dictyostelium**

Muatasem Ubeidat - Southwestern Oklahoma State University  
Christopher West - University of Oklahoma

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**A Review on the Discovery of Dendritic Cells**

Miranda Anderson - Northeastern State University

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**Molecular Coordination of Iron Homeostasis by microRNAs**

McKale Davis - Oklahoma State University  
Grant Tinsley - Oklahoma State University  
Elizabeth Rendina - Oklahoma State University  
Edralin Lucas - Oklahoma State University  
Brenda Smith - Oklahoma State University  
Yun Zheng - Oklahoma State University  
Ramanjula Sunkar - Oklahoma State University  
Stephen Clarke - Oklahoma State University

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**Senescence Marker Expression Differs Among Foragers Classified by Blue-Yellow Color Preference and Reward-Responsiveness**

J.M. Hranitz - Bloomsburg University  
Jonathan Bobek - Bloomsburg University  
John Barthell - University of Central Oklahoma  
Meredith Clement - University of Central Oklahoma  
Talei Apted - American Samoa Community College  
Leah Bates-Albers - University of Central Oklahoma  
Nora Hall - Loyola Marymount University  
Ibrahim Cakmak - Uludag University  
H. Wells - University of Tulsa

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**Review - Tunneling Nanotubes: Intercellular Communication, Cytoplasmic Sharing, and Pathogen Pathway**

Don Curry - Northeastern State University

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**CURE-STEM: A Model for Encouraging and Sustaining a Culture of Student-Centered Research**

Charlotte Simmons - University of Central Oklahoma  
John Barthell - University of Central Oklahoma  
Wei Chen - University of Central Oklahoma  
Beverly Endicott - University of Central Oklahoma  
Charles Hughes - University of Central Oklahoma  
William Radke - University of Central Oklahoma  
Gregory Wilson - University of Central Oklahoma

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**Globalization, Undergraduate Research, and Persistence to Graduate School**

John Barthell - University of Central Oklahoma  
William Radke - University of Central Oklahoma  
J.R. Redd - University of Central Oklahoma  
Charles Abramson - Oklahoma State University  
J.M. Hranitz - Bloomsburg University  
H. Wells - University of Tulsa

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**Characterization of Three Major Histocompatibility Complex Class II Loci in Neotoma Albigula**

Lindsay Stone - University of Central Oklahoma

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**Proliferation of Myofibroblasts using 5-ethynyl-2'-deoxyuridine (EdU)**

Tobi Odejimi - University of Central Oklahoma  
Julie Hamilton - University of Central Oklahoma  
Melville Vaughan - University of Central Oklahoma

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**Quantitation of Total Human and Human Male DNA Using Real-Time PCR**

Lyndsey McNeil - Oklahoma City Community College

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**Plant Competition and Perturbation within an Aegean Pollination System**

John Barthell - University of Central Oklahoma  
J.R. Redd - University of Central Oklahoma  
T.N. Brewster - University of Central Oklahoma  
A.M. Chicas-Mosier - Oklahoma State University  
C.W. Dinges - Oklahoma State University  
J.M. Hranitz - Bloomsburg University  
C.A. Hayes - University of Central Oklahoma  
K.M. Rivera-Vega - University of Central Oklahoma  
M.I. Williams - University of Central Oklahoma  
T. Petanidou - University of Central Oklahoma  
H. Wells - University of Tulsa



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**Plant Biotechnology**

Mohammed Shaban - Northeastern State University  
Kevin Wang - Northeastern State University

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**Pollinator Type and Size Varies According to Nectar Standing Crop within American and Eurasian Island Ecosystems**

John Barthell - University of Central Oklahoma  
Victor Gonzalez - Southwestern Oklahoma State University  
J.R. Redd - University of Central Oklahoma  
J.M. Hranitz - Bloomsburg University  
T. Petanidou - University of Central Oklahoma  
H. Wells - University of Tulsa

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**Impact of Hand Washing Instructions on Hand Washing Practices at the University of Central Oklahoma.**

Robert Brennan - University of Central Oklahoma  
Mike Braden - University of Central Oklahoma  
Amber Bragg - University of Central Oklahoma  
Kalen Cesar - University of Central Oklahoma  
Allison Coleman - University of Central Oklahoma  
Peter Drevets - University of Central Oklahoma  
Jing Herwig - University of Central Oklahoma  
Joseph Proffer - University of Central Oklahoma  
Shey Ramsey - University of Central Oklahoma  
Emily Shackelford - University of Central Oklahoma  
Veronica Smith - University of Central Oklahoma  
Chelsea Smith - University of Central Oklahoma  
Brendon Yuill - University of Central Oklahoma  
Khabbab Amin - University of Central Oklahoma  
Jayci Fleming - University of Central Oklahoma  
Quinn Gorges - University of Central Oklahoma

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**Optimization of Protocol for Histidine-Tag Specific Capture for Standard Biosensor Surface**

Jordan Evans - University of Central Oklahoma  
Skylar Snowden - University of Oklahoma

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**The Effects of Freeze-Dried Watermelon on Bone Parameters of Ovariectomized Mice**

Maryam Mahmood - Oklahoma State University  
Kayla Castleberry - Oklahoma State University  
Maureen Meister - Oklahoma State University  
Heba Eldoumi - Oklahoma State University  
Connie Ketz-Riley - Oklahoma State University  
Stephen Clarke - Oklahoma State University  
Brenda Smith - Oklahoma State University  
Edralin Lucas - Oklahoma State University  
Penelope Perkins-Veazie - Oklahoma State University

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**Eastern Medicine: Acupuncture**

Ahmed Zendah - Northeastern State University

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**Foraging Strategies in the North American Honey Bee (*Apis mellifera*): Forensic Applications and Analyses**

JeAnna Redd - University of Central Oklahoma  
John Barthell - University of Central Oklahoma  
Wayne Lord - University of Central Oklahoma  
Thomas Jourdan - University of Central Oklahoma  
Alexia Gonzalez - University of Central Oklahoma  
Jessica Price - University of Central Oklahoma  
Emily Webb - University of Central Oklahoma  
Jordan Vargas - University of Central Oklahoma  
Michael Jordan - University of Central Oklahoma  
Yoselin Vallejos - University of Central Oklahoma  
Alexa Prim - University of Central Oklahoma

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**A Look at Eastern Medicine**

Rebecca Wagner - Northeastern State University

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**Altered TNF-Alpha And IL-10 Cytokines In Bladder And Kidney Of Mice With Increased Uropathogenesis**

Sepideh Darbandi - Oklahoma State University  
Rashmi Kaul - Oklahoma State University  
Anil Kaul - Oklahoma State University  
Richard Glass - Oklahoma State University





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**Increasing the precision of measurements for tension generation by precancerous cells, Ker-CT-Ras**

Jessica Webb - University of Central Oklahoma  
Melville Vaughan - University of Central Oklahoma  
Anna Graves - University of Central Oklahoma

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**Molecular Pharming with Transgenic Plants**

Zach Zaaza - Northeastern State University

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**The Study of Azoreductase Enzymes in Human Intestinal Bacteria**

Taylor Dismuke - Langston University  
Shanel Byron - Langston University  
K.J. Abraham - Langston University

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**The Further Study of n-Acetyl Cysteine (NAC) Effects on Cell Proliferation and Phenotype**

Jing Herwig - University of Central Oklahoma  
Melville Vaughan - University of Central Oklahoma

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**Hyperglycemia Affects IL-6R Function in Skin**

Megan Bowlin - Langston University

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**Chinese Cupping Therapy**

Kandace Hockett - Northeastern State University

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**Tensional Homeostasis in an Invitro Wound Healing Model**

Chelsea Spencer - University of Central Oklahoma  
Melville Vaughan - University of Central Oklahoma

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**Natural Compounds and Antibacterial Activity in a Species of Mentha**

Lindsay Davis - Langston University  
Eliza Payne - Langston University  
Morgan James - Langston University

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**Effect of Transforming Growth Factor Beta Concentration Gradient on Myofibroblast Differentiation**

Mellisa Chigwedere - University of Central Oklahoma  
Tobi Odejimi - University of Central Oklahoma  
Melville Vaughan - University of Central Oklahoma

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**Personal Research Review on: Plant Breeding**

Mohamad Al-Rifai - Northeastern State University

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**Antioxidant Inhibition of Keratinocyte Invasion of a Synthetic Dermis**

Attika Secondi - Rose State College  
Melville Vaughan - University of Central Oklahoma

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**Mapping Interaction Domains on Mcm10 and Mrc1 in Budding Yeast**

Drew Breedlove - Northeastern State University  
Chance Hendrix - Northeastern State University  
Sapna Das-Bradoo - Northeastern State University

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**Using Fluorescence Microscopy to Investigate the Interaction Between Mcm10 and Mrc1 in Saccharomyces cerevisiae**

Chance Hendrix - Northeastern State University  
Sapna Das-Bradoo - Northeastern State University

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**A Review on: Expression Pattern of the Alpha-Kafirin Promoter Coupled with a Signal Peptide from Sorghum bicolor**

Catherine Richardson - Northeastern State University

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**Drosophila N-Hydro-Terminator**

Robert DuPriest - Northeastern State University

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**A Review of the Traditional Chinese Medicine Diagnostic Technique of Tongue Inspection**

Rachel Wirginis - Northeastern State University

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**Treating Retinitis Pigmentosa Through Use of Stem Cell Therapy and Gene Therapy**

Rebecca Wagner - Northeastern State University

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**Desmodus rotundus (Vampire Bat) Salivary Plasminogen Activator as an Alternative Treatment for Ischemic Stroke**

Ian Schalo - Northeastern State University  
Frank Yau - Northeastern State University  
Kevin Wang - Northeastern State University

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**The Effect of Telomerase on Dupuytren's Disease Myofibroblasts Migration and Differentiation**

Dima Sawalha - University of Central Oklahoma  
Melville Vaughan - University of Central Oklahoma



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**The effect of freeze-dried mango on bone parameters of ovariectomized mice.**

Heba Eldoumi - Oklahoma State University  
Maureen Meister - Oklahoma State University  
Stephen Clarke - Oklahoma State University  
Brenda Smith - Oklahoma State University  
Edralin Lucas - Oklahoma State University

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**The Kids are Doing Alright: Unexpected High Fitness Payoff of Subordinate Social Tactics in Male Collared Lizards**

Joshua York - University of Central Oklahoma  
Michelle Haynie - University of Central Oklahoma  
Troy Baird - University of Central Oklahoma

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**Refined Description of a Gene Locus in Escherichia coli Encoding for Bile Salt Resistance and Sensitivity**

Eden Bernstein - University of Central Oklahoma  
Anna Graves - University of Central Oklahoma  
Jonna Whetsel - University of Central Oklahoma  
Jim Bidlack - University of Central Oklahoma

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**Influence of the Onset of First Egg Production on the Number of Multiple Clutches in Female Collared Lizards**

Jarrod Hertzler - University of Central Oklahoma  
Troy Baird - University of Central Oklahoma

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**Comparative Study of Infectious Diseases in Saudi Arabia and the United States**

Eric Paul - Southwestern Oklahoma State University  
Haitham Alnaqeb - Southwestern Oklahoma State University

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**Analysis of the Spread and Prevalence of Antibiotic-Resistant Fecal Bacteria Among Wild Animal Populations of Bison and Longhorn Cattle in the Wichita Mountains Wildlife Refuge**

Dennis Frisby - Cameron University  
Tahzeeba Frisby - Cameron University  
Michael Kaiser - Cameron University  
Joseph Kheir - Cameron University

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**Protein Production for Caisson Biotech's HEPTune™**

Neda Hessami – Oklahoma City Community College

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**Development of a Histoplasma Antigen Lateral Flow Assay (Hag LFA)**

Candy Palmer - Oklahoma City Community College

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**Marker Free Genetically Modified (GM) Crops**

Bobby Bezinque - Northeastern State University

**04. BOTANY**

05.04.01

**Examining the Effects of Lanthionine Ketimine (LK) in Axonal Elongation in vivo**

Caleb Hubbard - Southeastern Oklahoma State University  
Erica Benda - Southwestern Oklahoma State University  
Tyler Hardin - Southwestern Oklahoma State University  
Taylor Baxter - Southwestern Oklahoma State University  
Elizabeth St. John - Southwestern Oklahoma State University  
Kenneth Hensley - Southwestern Oklahoma State University  
Andrea Holgado - Southwestern Oklahoma State University

05.04.02

**Comparison of Leaf Area Index (LAI) of Tomato Plants Grown Under Conventional or Plasti-culture Techniques**

William Phillips - Redlands Community College  
Alicia Fisher - Oklahoma State University

05.04.03

**Smoke enhances germination of Phacelia strictiflora seeds**

Sonya Ross - Southeastern Oklahoma State University  
Stanley Rice - Southeastern Oklahoma State University

05.04.04

**Impact off Rootstock and Plant Spacing on Leaf Area Index (LAI) of Noiret Grape Vines During the First Year of Establishment**

William Phillips - Redlands Community College  
Ashton Fisher - Oklahoma State University

05.04.05

**Which Species are at Risk? Students Assess Plants Vulnerable to Being Over Harvested**

Zella Classen - Southwestern Oklahoma State University  
Lisa Castle - Southwestern Oklahoma State University

05.04.06

**Conservation Biology Research Projects with Service Learning**

Patty Smith - Tulsa Community College  
Kelly Markwardt - Tulsa Community College

05.04.07

**Hard Times for a Weedy Vine: Cyclanthera dissecta Population Fluctuations in Drought**

Lisa Castle - Southwestern Oklahoma State University  
Ariel Seward - Southwestern Oklahoma State University



05.04.08

**Invasive, not Heavenly: Students Track Ailanthus altissima Populations in Weatherford**

Lisa Castle - Southwestern Oklahoma State University  
Tanner Wheeler - Southeastern Oklahoma State University  
Zella Classen - Southwestern Oklahoma State University

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**Mapping Invaders From Heaven: the Ailanthus altissima Population Illustrated**

Lisa Castle - Southwestern Oklahoma State University

05.04.10

**Invasive Plants of the Wichita Mountains Wildlife Refuge, Comanche County, Oklahoma: A Service Learning Project**

Frank Urbanski - Cameron University  
Michael Dunn - Cameron University

**05. CHEMISTRY**

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**Synthesis and Characterizations of Platanum Coordinated Thiophene and Thiolate Complexes**

A.K. Fazlur Rahman - Oklahoma School of Science and Mathematics

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**SPME GCMS Method for the Analysis of Triclosan in Sewage Treatment Outflow Waters**

John Bowen - University of Central Oklahoma  
Kaci Rosales - University of Central Oklahoma  
Alex Matunas - University of Central Oklahoma  
Billy Frenier - University of Central Oklahoma  
Gregory Melsby - University of Central Oklahoma  
Al Albahadily - University of Central Oklahoma

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**Development of a Paper-Based Biosensor for Antibodies in Serum**

John Bowen - University of Central Oklahoma  
Nicolas Shaffer - University of Central Oklahoma  
Mary Tappert - University of Central Oklahoma  
Barry Lavine - Oklahoma State University

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**Development Of Hybrid Format Upper-Level Chemistry Course**

Joel Smith - Southeastern Oklahoma State University

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**Computation of Solvent Effects on Energetics of Metallocene-Catalyzed Ethylene Polymerization**

Paritosh Das - Cameron University  
Emvia Calixte - Cameron University

05.05.06

**Dihydrodipicolate Synthase from E. coli: Mutagenesis of Threonine 44 to Valine**

Russell Evans - University of Central Oklahoma  
Yvonne Daugherty - University of Central Oklahoma  
Lilian Chooback - University of Central Oklahoma

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**Soil Conductivity Analysis of the Formation and Detection of Perchlorate Brines on Mars**

Kayla Love - Langston University  
Vincent Chvevriier - Langston University  
Laura Fernandez - Langston University

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**Fabrication and Characterization of a Solid State Organic Photovoltaic for the Purpose of Improving Efficiency**

Dane Scott - East Central University  
Cody Soden - East Central University  
Laura Berdugo - East Central University  
Joshua Smith - East Central University

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**Characterization of the Slow-Binding Inhibition by Acetopyruvate of the Dihydrodipicolinate Synthase from E. coli**

Lilian Chooback - University of Central Oklahoma  
William Karsten - University of Oklahoma  
Priscilla Seabourn - University of Central Oklahoma

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**Analysis of Oklahoma mushroom fruiting-body odors using GCMS and Solid Phase Microextraction**

John Bowen - University of Central Oklahoma  
Clark Ovrebo - University of Central Oklahoma  
Kaci Rosales - University of Oklahoma  
Alex Matunas - University of Central Oklahoma

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**Indigo Blue: Connecting its Chemistry with History**

Dene Betz - Oklahoma School of Science and Mathematics  
Ethan Wood - Oklahoma School of Science and Mathematics  
Caleb Wood - Oklahoma School of Science and Mathematics  
A.K. Fazlur Rahman - Oklahoma School of Science and Mathematics

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**GC/MS Comparison Analysis of Wormwood Related Plants Serving as a Natural Way of Deworming Farm Animals Versus Current Deworming Products.**

Megan Meek - Northeastern State University  
Tiffany Maher - Northeastern State University

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**Transition Metal Binding by Desferrioxamine**

Brianna Broad - Northeastern State University



05.05.15  
**Identifying Ada City Water Leaks by Measuring Ca, Mg, and Total Hardness**  
Destiney Shouse - East Central University

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**The Synthesis and Reactivity of a NNC Nickel Chloride Complex**  
Steven Meier - University of Central Oklahoma  
Jessica Laverty - University of Central Oklahoma  
Kelsey Coy - University of Central Oklahoma  
Amanda Purcell - University of Central Oklahoma

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**The Synthesis of a Ruthenium NNC Pincer Complex**  
Steven Meier - University of Central Oklahoma  
Luis Figueroa - University of Central Oklahoma

05.05.18  
**Dynamic Coupling of Rotors and Axles in Rotaxanes**  
James Dechter - University of Central Oklahoma  
Kim Pham - University of Central Oklahoma  
William Garbe - University of Central Oklahoma

05.05.19  
**Reversed Phase HPLC Analysis of B-Vitamins**  
Stormie Holcomb - Northeastern State University  
Jessica Martin - Northeastern State University

05.05.20  
**Synthesis and Evaluation of a New Generation of Highly Acidic Nucleophilic Glycine Equivalents for the Preparation of Unnatural  $\alpha$ -amino acids**  
Trevor Ellis - Southwestern Oklahoma State University

05.05.21  
**Nutritional Benefits of Different Tomato Strains: A Look at Glucose, Fructose and Vitamin C.**  
Tyler Vann - University of Central Oklahoma  
Lilian Chooback - University of Central Oklahoma

05.05.22  
**Dihydrodipicolinate Synthase From E. coli: Site-Directed Mutagenesis of Arginine 138 and Lysine 133**  
Tyler Vann - University of Central Oklahoma  
Charles Nguyen - University of Central Oklahoma  
Lilian Chooback - University of Central Oklahoma  
William Karsten - University of Oklahoma

05.05.23  
**Biomass Deconstruction to Produce Sugars Using Ionic Liquid**  
Jude Abia - Northeastern State University  
Rashad Ismayilov - Northeastern State University

05.05.24  
**Conversion of Vegetable Oil to Biodiesel Using Microwave Irradiation**  
Tyler Scott - Northeastern State University  
Spence Pilcher - Northeastern State University

05.05.25  
**Genetic Variation in PPAR $\gamma$  at Nucleotide 1431 Impairs Obesity Related Phenotypes in Response to Exercise Training.**  
Martell Mckinney - Langston University

05.05.26  
**Cellulosic Ethanol for Biomass Fuel**  
Justin Watts - Northeastern State University

05.05.27  
**Structure Activity Relationship Studies to Improve Cancer Drugs**  
Dana Rundle - University of Central Oklahoma  
Caitlin Kriewall - University of Central Oklahoma  
Wm. Carroway - University of Central Oklahoma  
Kelsie Magiera - University of Central Oklahoma

05.05.28  
**Effects of Microwave Irradiation on the Free-Radically Initiated Microemulsion Polymerization of Styrene**  
Brent Roberts - Northeastern State University  
Spence Pilcher - Northeastern State University

05.05.29  
**N-Substituted Polycyclic Aromatic Hydrocarbons as Models for Organic Switches**  
Dwight Myers - East Central University  
Daniel McInnes - East Central University

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**Microwave Synthesis of Ti- and Y-Doped BIMEVOX Compounds**  
Dwight Myers - East Central University  
Chandra Thapaliya - East Central University

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**A Study of Varied Dopant Levels in BIMEVOX Compounds by Microwave Synthesis**  
Dwight Myers - East Central University  
Joshua Smith - East Central University

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**The Prospects of Biofuel in Oklahoma: An Educational Study**  
Nathan Jia - Oklahoma School of Science and Mathematics  
Jimmy Wu - Oklahoma School of Science and Mathematics  
A.K. Fazlur Rahman - Oklahoma School of Science and Mathematics



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**Measuring Temperature Dependence on Charge Organization in Ionic Liquids**  
Gage Coltrain - Northeastern State University  
Christopher Burba - Northeastern State University

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**The Effects of Microwave Irradiation on the Microemulsion Polymerization of Methyl Methacrylate**  
Dustin Baucom - Northeastern State University  
Spence Pilcher - Northeastern State University

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**Developing Laboratory Experiments for General and Organic Chemistry Labs Using the Vernier LabQuest**  
Azeezatulai Oyebola - Cameron University  
Seth Geiger - Cameron University  
Stewart Younger-Mertz - Cameron University  
Elizabeth Nalley - Cameron University

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**Determining the Cause of Temporal Instability of Self-Assembled Gold Nanoparticle Thin Films**  
Kristen Worthen - Cameron University  
Nolan Flynn - Cameron University

05.05.38  
**Progress Towards the Synthesis of 1Alpha-Hydroxyvitamin D5 Core System**  
Dragos Albinescu - Northeastern State University  
Jake Barber - Northeastern State University

05.05.39  
**Regiospecific Lithium-Mediated Sn2 Benzylolation of a Natural Anthoquinonoid Dye**  
Rajah Singh - Langston University

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**The Production of Xanthan Gum as a Sustainable Source of Hydraulic Fracturing**  
Lindsay Davis - Langston University

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**Electrochemical Redox Mechanism Analysis of Li<sub>2-x</sub>FeP<sub>2</sub>O<sub>7</sub> (0 ≤ x ≤ 1) Pyrophosphate Cathode via IR Spectroscopy**  
Chad Hollifield - Northeastern State University  
Christopher Burba - Northeastern State University

## 06. COMPUTER SCIENCE

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**A Comparison of Artificial Neural Network Libraries**  
Patrick Harrington - Northeastern State University

05.06.02  
**Android TextEncrypt**  
Rad Alrifai - Northeastern State University  
Clinton Parker - Northeastern State University

05.06.03  
**Sharing and Social Networking through Mobile Devices Based on Cloud Computing**  
Zhibin Zhang - University of Central Oklahoma  
Jicheng Fu - University of Central Oklahoma

05.06.04  
**Towards an Intelligent System for Clinical Guidance on Wheelchair Tilt and Recline Usage**  
Jicheng Fu - University of Central Oklahoma  
Paul Wiechmann - University of Central Oklahoma

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**Vigenere Cipher Tool**  
Rad Alrifai - Northeastern State University  
Adam James - Northeastern State University

05.06.06  
**Prime Propagator**  
Rad Alrifai - Northeastern State University  
Colin Clinton - Northeastern State University

05.06.07  
**Njord: A web application Controller**  
Rad Alrifai - Northeastern State University  
Justin Smith - Northeastern State University

05.06.08  
**Early Rise Alarm**  
Rad Alrifai - Northeastern State University  
Christopher Allen - Northeastern State University

05.06.09  
**Construction Project Management Software(#CPM)**  
Rad Alrifai - Northeastern State University  
Daniel Gibson - Northeastern State University

05.06.10  
**Volunteer Portal**  
Rad Alrifai - Northeastern State University  
Daniela Odell - Northeastern State University

05.06.11  
**Lawn Gnomie: An Android Application**  
Rad Alrifai - Northeastern State University  
Bridgette Cowden - Northeastern State University

05.06.12  
**Computer Science Jobs Application**  
Rad Alrifai - Northeastern State University  
David Boling - Northeastern State University



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**Point of Sale System**  
Rad Alrifai - Northeastern State University  
Charity Henson - Northeastern State University

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**An Android Shopping Platform**  
Rad Alrifai - Northeastern State University  
Brent Spencer - Northeastern State University

05.06.15  
**Fast Strong Planning for FOND Problems with Multi-Root DAGs**  
Andres Calderon Jaramillo - University of Central Oklahoma  
Jicheng Fu - University of Central Oklahoma

05.06.16  
**Solving Karnaugh Maps on Mobile Devices**  
Hong Sung - University of Central Oklahoma  
Toan Nguyen - University of Central Oklahoma

05.06.17  
**Simplified Angry Birds**  
Hong Sung - University of Central Oklahoma  
Vinh Luong - University of Central Oklahoma

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**Increasing the Experimental Speed by Automating Data Generation**  
Paul Wiechmann - University of Central Oklahoma  
Jicheng Fu - University of Central Oklahoma

05.06.19  
**Fairness Bandwidth Allocation in Multimedia's Multicast**  
Lie Qian - Southeastern Oklahoma State University  
Sky Pettett - Southeastern Oklahoma State University

05.06.20  
**From Linear Equation to Secure Communication Using Operational Amplifier Circuit**  
Quinten Walker - Langston University

05.06.21  
**Wheelchair Maneuvering Skills – Teaching Young Children to “Drive” Wheelchairs**  
Susan Hanks - University of Central Oklahoma  
Jicheng Fu - University of Central Oklahoma

05.06.22  
**Using Software Design Principles to Model a Bioinformatics Software Project**  
Wenxi Zeng - University of Central Oklahoma  
Jicheng Fu - University of Central Oklahoma

05.06.23  
**Global Grids and Volunteering Computing**  
Warren Moseley - Southwestern Oklahoma State University  
Mary Ann Phillips - Southwestern Oklahoma State University

05.06.24  
**Cache Memory Simulation**  
Thomas Turner - University of Central Oklahoma  
Eric McDonald - University of Central Oklahoma

05.06.25  
**Kalman filter is effective for our research**  
Yuqing Yan - University of Central Oklahoma  
Jicheng Fu - University of Central Oklahoma

05.06.26  
**Model-Driven Development: Where Does the Code Come From?**  
Jicheng Fu - University of Central Oklahoma  
Jianbin Wu - University of Central Oklahoma

05.06.27  
**A Comparison Study between Compressed and Uncompressed Inverted Indexes for Memory Constrained Devices**  
Gang Qian - University of Central Oklahoma  
Grzegorz Bugaj - University of Central Oklahoma

05.06.28  
**Characteristics and Applicability of Commonly used Classification Algorithms in Data Mining**  
Gang Qian - University of Central Oklahoma  
Rui Zhang - University of Central Oklahoma

05.06.29  
**An Approach for Raising Female Information Assurance and Security Workforce**  
Myung Ah Park - University of Central Oklahoma  
Michelle Hepner - University of Central Oklahoma

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**A Mobile Cloud Computing Platform for Capturing Power Wheelchair Maneuvering Patterns**  
Travis White - University of Central Oklahoma  
Jicheng Fu - University of Central Oklahoma  
Eddy Rajiah - University of Central Oklahoma  
John Sluder - University of Central Oklahoma

05.06.31  
**Analyzing Wheelchair Motion Data**  
Ying Zhang - University of Central Oklahoma  
Jicheng Fu - University of Central Oklahoma

05.06.32  
**Wheelchair Simulation Prototype**  
Devin Allen - University of Central Oklahoma  
Jicheng Fu - University of Central Oklahoma



05.06.33

**Building a Secure Web site over ASP.NET**

Alyssa Baay - University of Central Oklahoma

Myung-Ah Park - University of Central Oklahoma

05.06.34

**Knowledge Management for Small to Medium sized Businesses in Rural Western Oklahoma.**

Warren Moseley - Southwestern Oklahoma State University

David Britton - Southwestern Oklahoma State University

Micheal Brinkley - Southwestern Oklahoma State University

Patrick Spears - Southwestern Oklahoma State University

05.06.35

**Grid Computing for 3D Images and Animation.**

Warren Moseley - Southwestern Oklahoma State University

Hayden Harrington - Southwestern Oklahoma State University

University

Aaron Wilson - Southwestern Oklahoma State University

**07. CRIMINAL JUSTICE**

05.07.01

**Improving Crime Analysis Through an Examination of Auto Burglary: Edmond, Oklahoma**

Emelia Chrisco - University of Central Oklahoma

05.07.02

**The Stillwater Auto Burglary Project: A Multidisciplinary Pilot Study**

James Lofton - University of Central Oklahoma

Emelia Chrisco - University of Central Oklahoma

05.07.03

**The Effects of Carbohydrate Concentrations on Heat Shock Protein Expression in Daphnia Magna**

Crittell Charles - East Central University

Nikki Dickerson - East Central University

Charles Biles - East Central University

**08. ENGINEERING**

05.08.01

**Uses for Flyash in Educational Learning Materials**

Wayne Glass - University of Tulsa

05.08.02

**Emissions Solutions through Advancements in Selective Catalytic Reduction Systems**

Jeremy Massey - University of Tulsa

05.08.03

**Temperature Compensation for Transmission Crystals**

Stephan West - University of Tulsa

05.08.04

**The Design and Building of a Wind Powered Tesla Turbine**

Baha Jassemnejad - University of Central Oklahoma

Weldon Wilson - University of Central Oklahoma

05.08.05

**Redundant Communications Processor with Simple Network Management Protocol Monitoring**

Baha Jassemnejad - University of Central Oklahoma

05.08.06

**Design and Development of a Digital Impedance Analyzer**

Baha Jassemnejad - University of Central Oklahoma

05.08.07

**Design and Optimization of a Modular System for Biofluids Research**

Baha Jassemnejad - University of Central Oklahoma

Evan Lemley - University of Central Oklahoma

05.08.08

**Building of a Portable EEG Monitor**

Baha Jassemnejad - University of Central Oklahoma

Yuhao Jiang - University of Central Oklahoma

05.08.09

**Design and Testing of Wireless Energy Transmission**

Baha Jassemnejad - University of Central Oklahoma

Weldon Wilson - University of Central Oklahoma

05.08.10

**Design, Fabrication and Mechanical Characterization of Polyethylene Glycol Diacrylate (PEGDA) for Tissue Engineering Applications**

Baha Jassemnejad - University of Central Oklahoma

Morshed Khandaker - University of Central Oklahoma

05.08.11

**Automated Modular Optical Tweezers**

Baha Jassemnejad - University of Central Oklahoma

05.08.12

**Automation and Control of a Satellite Antenna Positioning and Alignment System**

Baha Jassemnejad - University of Central Oklahoma

05.08.13

**Power Oscillator for a Transcutaneous Energy Transfer – TET System**

Baha Jassemnejad - University of Central Oklahoma

05.08.14

**Automation and Remote Control of an Astronomical Observatory**

Baha Jassemnejad - University of Central Oklahoma



05.08.15

**Virtual Test Impairment Measurement Set**

Jeff Fallon - University of Central Oklahoma  
Jonathan Adams - University of Central Oklahoma  
Anh Ho - University of Central Oklahoma  
Juan Orozco - University of Central Oklahoma

05.08.16

**Stent Contrast Enhancement Filter in Interventional X-Ray Fluoroscopy**

Yuhao Jiang - University of Central Oklahoma  
Eranda Ekanayake - University of Central Oklahoma  
Niralee Raichura - University of Central Oklahoma

05.08.17

**Speech Intelligibility of the Temporal and Spectral Speech Coding Strategies**

Mohamed Bingabr - University of Central Oklahoma  
Blas Espinoza-Varas - University of Oklahoma  
Lingpo Huang - University of Central Oklahoma  
Cedric Tinang - University of Central Oklahoma

05.08.18

**Development of Productivity-based Estimating Tool for Energy and Environmental Impact of Heavy Duty Diesel Construction Equipment**

Apif Hajji - Oklahoma State University  
Phil Lewis - Oklahoma State University

05.08.19

**Modeling the Structural Mechanics of Cilia and Flagella**

Gang Xu - University of Central Oklahoma  
Miciah Guy - University of Central Oklahoma

05.08.20

**Investigation of Artificial Gravity Habitat Dynamics**

Geoffrey Kibble - Oklahoma State University  
Alyssa Avery - Oklahoma State University  
Zach Barbeau - Oklahoma State University  
Calvin Brown - Oklahoma State University  
Brian Delano - Oklahoma State University  
Reyhan Eusufzai - Oklahoma State University  
Jaymie Jordan - Oklahoma State University  
Shane Spear - Oklahoma State University  
Thomas Verschelden - Oklahoma State University  
Steven Asplin - Oklahoma State University  
Chase Colvin - Oklahoma State University  
Carolina Vega - Oklahoma State University  
Kale Woosley - Oklahoma State University  
Jamey Jacob - Oklahoma State University  
Shea Fehrenbach - Oklahoma State University  
Jake Hathaway - Oklahoma State University

05.08.21

**Cellular Anti-Tumor Immunological Responses Induced by Laser Immunotherapy with Immunologically Modified Carbon Nanotubes**

Joseph Aquaviva - University of Central Oklahoma  
Ellen Boarman - University of Central Oklahoma  
Wei Chen - University of Central Oklahoma

05.08.22

**Temperature Compensation for Transmission Crystals**

Stephan West - University of Tulsa

05.08.23

**Mercury Robot**

Blair Baldrige - Oklahoma State University

05.08.24

**3-Dimensional Profiling of Canine Prostate by Using Sparse 2-Dimensional Axial and Sagittal Trans-rectal Ultrasound Images for Guiding Trans-rectal Optical Tomography Reconstruction**

Dhanashree Palande - Oklahoma State University  
Daqing Piao - Oklahoma State University

05.08.25

**Mechanical Effectiveness of Polyvinyl Alcohol/Polyvinyl Pyrrolidone (PVA/PVP) as an Intervertebral Disc Polymer**

Khiet Tran - University of Central Oklahoma  
Kooroush Azartash-Namin - University of Central Oklahoma  
Zheila Azartash-Namin - University of Central Oklahoma  
Ashton Williams - University of Central Oklahoma  
Morshed Khandaker - University of Central Oklahoma

05.08.26

**Application of a Geometric-Sensitivity-Difference Based Reconstruction Method to Improve Object Depth-Localization for Fluorescence Diffuse Optical Tomography in a Circular Outward Imaging Geometry**

Krishna Teja Tokala - Oklahoma State University  
Daqing Piao - Oklahoma State University

05.08.27

**Design of an Optical Tweezers Force Calibration Procedure**

Niralee Raichura - University of Central Oklahoma  
Jophine Abraham - University of Central Oklahoma  
Erdoo Segher - University of Central Oklahoma  
Gang Xu - University of Central Oklahoma  
Baha Jassemnejad - University of Central Oklahoma





05.08.28

**Physical Properties of an Electro Active Polymer**

Zheila Azartash-Namin - University of Central Oklahoma  
Morshed Khandaker - University of Central Oklahoma

05.08.29

**Characterizing Fuel Use Rates of Heavy-Duty Diesel**

Equipment: A Case Study for Wheel Loaders  
Heni Fitriani - Oklahoma State University  
Phil Lewis - Oklahoma State University

05.08.30

**Effects of Glycated Chitosan on Interstitial Laser Immunotherapy for the Treatment of Metastatic Cancer**

Cody Bahavar - University of Central Oklahoma  
Allie Sikes - University of Central Oklahoma  
Jessica Goddard - University of Central Oklahoma  
Ellen Boarman - University of Central Oklahoma  
Robert Nordquist - University of Central Oklahoma  
Wei Chen - University of Central Oklahoma

05.08.31

**Automated Speaker Recognition System Based on Spectral and Temporal Analyses of the Speech**

Cedric Tinang - University of Central Oklahoma  
Aaron Langston - University of Central Oklahoma  
Trison Graham - University of Central Oklahoma  
Tommy Le - University of Central Oklahoma  
Mohamed Bingabr - University of Central Oklahoma

05.08.32

**Design, Construction, and Launch of Near Space Balloon**

Blice Nuchka Okome M'bika - University of Central Oklahoma  
Ahmed Alshbaan - University of Central Oklahoma  
Jerry Haubrick - University of Central Oklahoma  
Pankaj Karna - University of Central Oklahoma

05.08.33

**Anti-Tumor Immunity Induced by Combination of Glycated Chitosan and High Intensity Focused Ultrasound**

Wei Chen - University of Central Oklahoma

05.08.34

**Nitric Oxide Production in Macrophages Induced by Tumor Cells after High-Fluence Low Power Laser Irradiation**

Wei Chen - University of Central Oklahoma

05.08.35

**Laser Immunotherapy in the Treatment of Late-Stage, Metastatic Melanoma Patients**

Wei Chen - University of Central Oklahoma

05.08.36

**Developing Autonomous Solutions for Hazardous Environments**

Allen Goekler - University of Tulsa

05.08.37

**Energy Losses in Microjunction Chains**

Ane Muvadgah - University of Central Oklahoma  
Evan Lemley - University of Central Oklahoma

05.08.38

**Photothermal Effects of Glycated Chitosan Bound to Single-Walled Carbon Nanotubes**

Brock Henderson - University of Central Oklahoma  
Ryan Griswold - University of Central Oklahoma  
Jessica Goddard - University of Central Oklahoma  
Joseph Aquaviva - University of Central Oklahoma  
Wei Chen - University of Central Oklahoma

05.08.39

**Design and Implementation of a Partial Image Velocimetry System for Fluid Dynamics.**

Sultan Almaglooth - University of Central Oklahoma  
Yunhao Lin - University of Central Oklahoma  
Ane Muvadgah - University of Central Oklahoma  
Andrew Henderson - University of Central Oklahoma  
Evan Lemley - University of Central Oklahoma

05.08.40

**Effects of Micro Fibers on the Fracture Strength of Implant-Cement Interfaces**

Aayush khadka - University of Central Oklahoma  
Utsaha KC - University of Central Oklahoma  
Morshed Khandaker - University of Central Oklahoma  
Sandip Banstola - University of Central Oklahoma

05.08.41

**Discovering Amplitude Quantization as an Elementary Property of Macroscopic Vibrating Systems through Doubochinski's Pendulum**

Jason Yeisley - University of Central Oklahoma  
Chris Conley - University of Central Oklahoma  
Chris Stewart - University of Central Oklahoma  
Andrew McFarlin - University of Central Oklahoma

05.08.42

**Exothermic Temperature Measurements of Novel PMMA Bone Cements**

Morshed Khandaker - University of Central Oklahoma  
Zhaotong Meng - University of Central Oklahoma



05.08.43

**Loss Coefficient Calculation Using Entropy Generation with an Inexpensive Particle Image Velocimetry System**

Brock Ring - University of Central Oklahoma

Andrew Henderson - University of Central Oklahoma

Daniel Atkinson - University of Central Oklahoma

Evan Lemley - University of Central Oklahoma

05.08.44

**Loss Coefficient Determination of an Acrylic Bifurcation.**

Andrew Henderson - University of Central Oklahoma

Brock Ring - University of Central Oklahoma

Aric Gillispie - University of Central Oklahoma

05.08.45

**Design, Simulation, Fabrication, and Experimental Analysis of a Double Pipe Heat Exchanger**

Lince Romainum - University of Central Oklahoma

Jan Ronard Pinpin - University of Central Oklahoma

Mohammed Almomen - University of Central Oklahoma

Abdellah Ait-Moussa - University of Central Oklahoma

05.08.46

**Mechanism of Laser Immunotherapy in Treatment of Late-Stage, Metastatic Breast Cancer Patients**

Wei Chen - University of Central Oklahoma

05.08.47

**Optimization of Diesel Oxidation Catalyst and Diesel Particulate Filter System**

Matt Coffman - University of Tulsa

05.08.48

**Photoacoustic Imaging in Determination of Tissue Temperature during Laser Irradiation**

Wei Chen - University of Central Oklahoma

05.08.49

**A Method for Obtaining a Particle Image Velocimetry**

Aric Gillispie - University of Central Oklahoma

Evan Lemley - University of Central Oklahoma

05.08.50

**Synthesis and Optical Properties of pH-Responsive Novel Conjugated Polyampholytes**

Wei Chen - University of Central Oklahoma

Okhil Nag - University of Oklahoma

05.08.51

**Exothermic Temperature Measurements of Novel PMMA Bone Cements**

Zhaotong Meng - University of Central Oklahoma

05.08.52

**Data Acquisition for Laminar Fluid Systems**

Daniel Atkinson - University of Central Oklahoma

05.08.53

**Design of a Temperature Measurement and Acquisition Device to be used in Conjunction with Laser Photothermal Therapy**

Lance Straughn - University of Central Oklahoma

Shayla Pearson - University of Central Oklahoma

Amanda Walker - University of Central Oklahoma

Wei Chen - University of Central Oklahoma

**09. ENVIRONMENTAL SCIENCE**

05.09.01

**Effects of Climate Change On Biomass Allocation to Leaves and Specific Leaf Area along an Elevation Gradient**

Alexander Hardison - Oklahoma State University

Shafkat Khan - Other

Evailaufaumu Sala - Other

Fern Lehman - Other

Jacqueline Mohan - University of Georgia

05.09.02

**Investigation of Indigenous Actinomycetes as Chlordane Remediation Agents**

Paul Olson - University of Central Oklahoma

Jocelyn Bidlack - University of Central Oklahoma

James Green - University of Central Oklahoma

Felicia Osburn - University of Central Oklahoma

BrieAunna Webster - University of Central Oklahoma

05.09.03

**Paleontological Survey of Ordovician West Spring Creek Formation, Arbuckle Group, Kiowa County, OK**

Brian Campbell - Southwestern Oklahoma State University

Zella Classen - Southwestern Oklahoma State University

05.09.04

**Statistical Count of Invertebrata from Ordovician West Spring Creek Formation, Arbuckle Group, Kiowa County, OK**

Brian Campbell - Southwestern Oklahoma State University

Zella Classen - Southwestern Oklahoma State University

05.09.05

**Understanding the Keystone XL Pipe line: It's Impact on The Environment and Economy**

Mathew Baldwin - Oklahoma School of Science and Mathematics

A.K. Fazlur Rahman - Oklahoma School of Science and Mathematics



05.09.06

**Effects of Mango Supplementation on Clinical Parameters of Obese Individuals**

Shirley Evans - Oklahoma State University  
Edralin Lucas - Oklahoma State University  
Maureen Meister - Oklahoma State University  
Sandra Peterson - Oklahoma State University  
Stephen Clarke - Oklahoma State University  
Mark Payton - Oklahoma State University  
Brenda Smith - Oklahoma State University  
Penelope Perkins-Veazie - Oklahoma State University

05.09.07

**The Effects of Perceived Mental Fatigue on Exam Scores**

Cameron Williams - Southeastern Oklahoma State University  
Hal Poovey - Southeastern Oklahoma State University

**10. FORENSIC SCIENCE**

05.10.01

**Forensic Analysis of Cigarette Ash: Brand Determination Through Trace-metal Analysis**

Anja Groth - University of Central Oklahoma  
Thomas Jourdan - University of Central Oklahoma  
James Barnes - Oklahoma State University  
Cris Lewis - Oklahoma State University

05.10.02

**Bluetooth and Spyware Hacking of Android Smart Phones: A Forensic Assessment Using FTK**

Marci Brokish - University of Central Oklahoma

05.10.03

**Relocation of Remains: Scavenger Scatter Patterns in North Central Oklahoma, Preliminary Findings.**

Kama King - University of Central Oklahoma  
R. Christopher O'Brien - University of Central Oklahoma

05.10.04

**The Forensic Value of Processed Human Hair Extensions**

Caitlin Porterfield - University of Central Oklahoma

05.10.05

**The Melanin Storm; How Melanin is Linked to Competitive Behavior, Murderous Activity, Genetic and Electrical Processes**

John Sparacio – Independent Researcher

05.10.06

**A reduction in the stochastic effects of low-copy number DNA amplification through the use of duplex-specific nuclease**

Nicole Sambol - University of Central Oklahoma

05.10.07

**Deterioration of Various Cartridge Case Compositions in Selective Environments**

Amanda Bevers - University of Central Oklahoma

05.10.08

**Retention and Disposition of Digital Evidence in the Federal Criminal Justice System**

John Mabry - University of Central Oklahoma  
Marc Brokish - University of Central Oklahoma

05.10.09

**The State of SANE Trainings in Oklahoma**

Ngan Nguyen - University of Central Oklahoma

**11. GENETICS**

05.11.01

**The Role of Streptococcus Pyogenes Chromosomal Islands (SpyCI) in Survival: Response to Environmental Conditions and LmrP Expression**

Christina Hendrickson - University of Central Oklahoma

05.11.02

**De Novo Next-Generation Sequencing, Assembling and Annotation of Arachis Hypogaea L. Spanish Botanical Type Whole Plant Transcriptome**

Ning Wu - Langston University  
Kayla Love - Langston University  
Kanyand Matand - Langston University

05.11.03

**Online Database Research on Marfan Syndrome**

Ashley Hopkins - Northeastern State University  
William Dyson - Northeastern State University  
Katherine Coppenger - Northeastern State University  
Lasay Castellanos - Northeastern State University  
Kathi McDowell - Northeastern State University  
Dawn Bender - Northeastern State University

05.11.04

**The Bioinformatics Analysis of the Cystic Fibrosis Transmembrane Conductance Regulator**

Kathleen Andrews - Northeastern State University  
Brad Hamilton - Northeastern State University  
Brian Cookson - Northeastern State University  
Michael Grant - Northeastern State University  
Megan Shelton - Northeastern State University  
Kathi McDowell - Northeastern State University



05.11.05

**Bioformatics Research of Classic Maple Syrup Disease**

Steven Upshaw - Northeastern State University  
Staci Davis - Northeastern State University  
Bailey Hammitt - Northeastern State University  
Kathi McDowell - Northeastern State University

05.11.06

**Analysis of the X-Linked KX Blood Group Gene (McLeod Syndrome)**

Jonathan Nahmias - Northeastern State University  
Jason Onarecker - Northeastern State University  
Zach Burns - Northeastern State University  
Marc Scott - Northeastern State University  
Patrick Schrepel - Northeastern State University  
Kathi McDowell - Northeastern State University

05.11.07

**Bioformatic Analysis of Charcot-Marie-Tooth Disease Dominant Intermediate B; CMTDIB**

Elizabeth Ludinich - Northeastern State University  
Crystal Haun - Northeastern State University  
Kathi McDowell - Northeastern State University  
Samantha Huffman - Northeastern State University  
Joleen Wilson - Northeastern State University  
LaTekia Tyson - Northeastern State University

05.11.08

**Melatonin Sensitivity Mutants in Caenorhabditis elegans**

Stephen Fields - East Central University  
Krishna Bhattarai - East Central University  
Rajya Maharjan - East Central University  
Khalilah Watson - East Central University

05.11.09

**Two Proteins May Protect Red Algal Photosynthesis From High Light Damage**

Steven Karpowicz - University of Central Oklahoma  
Sukyoung Kwak - University of Central Oklahoma

05.11.10

**Genetic interaction studies with Drosophila Ardl suggest a role in regulating alternative cell death pathways**

Joseph Ahlander - Northeastern State University  
Jackie Stephens - Northeastern State University

**12. KINESIOLOGY**

05.12.01

**Relationship Between Bone Mineral Density and Exercise Dependence in Female Runners**

Hannah Kostecky - University of Central Oklahoma

05.12.02

**Nutritional Knowledge Among Division I Collegiate Athletes**

John Sellers - Oklahoma State University  
Andrew Hall - Oklahoma State University  
Natalya Nikitina-Helvey - Oklahoma State University  
Dalton Delaney - Oklahoma State University  
Bert Jacobson - Oklahoma State University

**13. MATHEMATICS**

05.13.01

**A simplified proof of the Kantorovich theorem for solving equations using scalar telescopic series**

Ioannis Argyros - Cameron University

05.13.02

**Boundedness, Monotonicity and Convergence of a Sequence of Special Zeros Obtained from Fibonacci-Type Polynomials**

Kristi Karber - University of Central Oklahoma  
Rebecca Miller - University of Oklahoma

05.13.03

**Broncho Tower - A Modification of the Tower of Hanoi Puzzle**

Stephen Gregg - University of Central Oklahoma  
Britney Hopkins - University of Central Oklahoma  
Kristi Karber - University of Central Oklahoma  
Thomas Milligan - University of Central Oklahoma  
Juan Orozco - University of Central Oklahoma  
Tyler Powell - University of Central Oklahoma

05.13.04

**An Iterative Approach to the Extended Broncho Tower Puzzle**

Stephen Gregg - University of Central Oklahoma  
Britney Hopkins - University of Central Oklahoma  
Kristi Karber - University of Central Oklahoma  
Thomas Milligan - University of Central Oklahoma  
Juan Orozco - University of Central Oklahoma  
Tyler Powell - University of Central Oklahoma

05.13.05

**An Experimental Study of the Comparison of Water and Oil Flow Through Vertical Pipes.**

Krystal Brantley - East Central University



05.13.06  
**Dynamics of the Spread of Staph Infections in Hospitals**  
Princess Hays - Langston University

05.13.07  
**Analysis of WWZ**  
Tobyn Large - East Central University

05.13.08  
**Fourier Analysis of Musical Instruments**  
Sarah Schatz - University of Central Oklahoma  
Michael Fulkerson - University of Central Oklahoma

05.13.09  
**The Game of Signs**  
Stephanie Duncan - East Central University  
Cady Murphy - East Central University

05.13.10  
**Multisensory Mathematics: A Tactile Approach to Concepts Found in Introductory Proofs**  
Kristi Karber - University of Central Oklahoma  
Courtney Simmons - University of Central Oklahoma

05.13.11  
**Modeling Jazz Artist Similarities Mathematically**  
Andres Calderon Jaramillo - University of Central Oklahoma  
Larry Lucas - University of Central Oklahoma

05.13.12  
**Issai Schur**  
Charlotte Simmons - University of Central Oklahoma  
Jesse Byrne - University of Central Oklahoma

05.13.13  
**Fibrinolysis: A Mathematical Approach**  
Brittany Bannish - University of Central Oklahoma  
James Keener - University of Central Oklahoma  
Aaron Fogelson - University of Utah

05.13.14  
**A Meta-Analysis of the Use of Calculators in Mathematics Achievement**  
Matt Garner - East Central University  
Vikki Orso - East Central University  
Karina Chavez - East Central University  
Kendra Parker - East Central University

05.13.15  
**Using Integrals to Derive Minkowski's Inequality for  $L^p$  Spaces**  
Karina Chavez - East Central University  
Matt Garner - East Central University  
Justin Cochran - East Central University  
Stephen Gammill - East Central University  
Sarah Harris - East Central University  
Simeon Kachikwu - East Central University  
Pradeep Kshetri - East Central University

05.13.16  
**A Network Approach to a Geometric Packing Problem**  
Bradley Paynter - University of Central Oklahoma

05.13.17  
**To Remediate or Not To Remediate? That is the Question.**  
Sarah Schatz - University of Central Oklahoma  
Michael Haszto - University of Central Oklahoma  
Tracy Morris - University of Central Oklahoma  
Cynthia Murray - University of Central Oklahoma

05.13.18  
**What Can We Do for Amanda? Enhancing Student Success in Remediation**  
Charlotte Simmons - University of Central Oklahoma  
Jesse Byrne - University of Central Oklahoma  
John Barthell - University of Central Oklahoma  
William Radke - University of Central Oklahoma  
Myron Pope - University of Central Oklahoma

05.13.19  
**Undergraduate research: the focus of the Oklahoma NSF STEP Program and UCO CURE-STEM**  
Wei Chen - University of Central Oklahoma  
John Barthell - University of Central Oklahoma  
Charlotte Simmons - University of Central Oklahoma  
Evan Lemley - University of Central Oklahoma

05.13.20  
**Using Integrals to Derive Hölder's Inequality for  $L^p$  Spaces.**  
Cerina Stiles - East Central University  
Connor Keith - East Central University  
Kshitiz Shrestha - East Central University  
Robert Brown - East Central University  
Sanju Khatri - East Central University  
Stephanie Maas - East Central University  
Stephen Weatherby - East Central University

05.13.21  
**Random Number Generation: The Linear Congruential Method**  
Joshua Crittenden - East Central University

05.13.22  
**An Algorithm for Civil Aircraft Altitude Adjustment Over Precipitous Terrain**  
David Stapleton - University of Central Oklahoma

05.13.23  
**Mathematical Models of Synchronizations of Yeast Cell Glycolytic Oscillations.**  
Nathan Pezant - University of Central Oklahoma  
Sean Lavery - University of Central Oklahoma  
Brittany Bannish - University of Central Oklahoma



05.13.24  
**Bound Smoothing using Euclidean Squared Distance Matrices**  
Heather Magee - University of Central Oklahoma

05.13.25  
**The Effect of Temperature on Glycolytic Oscillation Synchronization in Yeast Cells**  
Mark Wissler - University of Central Oklahoma  
Sean Lavery - University of Central Oklahoma  
Brittany Bannish - University of Central Oklahoma

05.13.26  
**Linking immunology and epidemiology with mathematical models: effects on individual disease and public health**  
Sean Lavery - University of Central Oklahoma

#### 14. OPTOMETRY

05.14.01  
**Axis Orientation of PureVision® 2 for Astigmatism at One, Five, and Ten Minutes**  
Lauren Frost - Northeastern State University  
April Parker - Northeastern State University  
Latricia Pack - Northeastern State University

05.14.02  
**The Accuracy of iCare Tonometry Over Silicone Hydrogel and Hydrogel Contact Lenses**  
Elise Bolay - Northeastern State University  
Vanessa Williams - Northeastern State University  
Alissa Proctor - Northeastern State University

05.14.03  
**Tonometry for the Management of Glaucoma**  
Kelsey Grounds - Northeastern State University  
Sarah Boone - Northeastern State University  
Jenna Lighthizer - Northeastern State University

05.14.04  
**Academic Predictors for Success in Optometry School**  
Randall Sauer - Northeastern State University

05.14.05  
**Selective Laser Trabeculoplasty Outcomes in Native American Glaucoma Patients**  
Chad Mies - Northeastern State University  
Josh Golden - Northeastern State University  
Michelle Welch - Northeastern State University

05.14.06  
**Correlation between viewing distance and asthenopia associated with viewing of three-dimensional televisions**  
Erin Ridder - Northeastern State University  
Bonnie Rigney - Northeastern State University

05.14.07  
**Survey Review of the Demonstrated Benefits of Completing an Optometric Residency**  
Sarah Mulliniks - Northeastern State University  
Emily Bruce - Northeastern State University

05.14.08  
**Tear Osmolarity Changes after Instilling Isotonic Hyaluronate Artificial Tears**  
Owen Setter - Northeastern State University  
Aaron Reinert - Northeastern State University  
Thomas Salmon - Northeastern State University

05.14.09  
**Melanoma Screening in Primary Eye-care: Dermoscopy vs. Gross Clinical Visualization**  
Andrew Whitley - Northeastern State University  
James Thirion - Northeastern State University

05.14.10  
**Was Rembrandt Strabismic?**  
Roger West - Northeastern State University  
Nicholas Mondero - Northeastern State University  
Russell Crotty - Northeastern State University

#### 15. PHARMACY

05.15.01  
**Controlled Drug Delivery Systems**  
Matthew Griffith - Southwestern Oklahoma State University  
Kaci Hall - Southwestern Oklahoma State University  
Tanya Harrelson - Southwestern Oklahoma State University  
Garrick Friesen - Southwestern Oklahoma State University  
Ashley Hartsell - Southwestern Oklahoma State University  
Hardeep Saluja - Southeastern Oklahoma State University

05.15.02  
**Health Challenges in Tanzania: Report of Public Health Screening Initiative**  
Linda Rider - University of Central Oklahoma

05.15.03  
**Dissolution Profile of Indomethacin Formulations with Complexation of Counter-ions in a PVP Matrix**  
Andrew Mansour - Southwestern Oklahoma State University  
John Thompson - Southwestern Oklahoma State University  
Hardeep Saluja - Southwestern Oklahoma State University



## 16. PHYSICS

05.16.01

### **Examining Acoustic Attenuation Coefficient In Salt Water Solution**

Chiemi Standridge - East Central University

05.16.02

### **Size and Mass of Cooper Pairs in Superconductors**

Sasha Townsend - Tulsa Community College

Jon Snellgrove - Tulsa Community College

Tyler Nitsche - Tulsa Community College

05.16.03

### **Acoustic Attenuation Coefficient**

Kristen Howard - East Central University

## 17. PSYCHOLOGY

05.17.01

### **Heterosexism: Can It Predict Homosexual Discrimination in Adoption?**

Evelyn Stratmoen - University of Central Oklahoma

Thomas Hancock - University of Central Oklahoma

05.17.02

### **The Relationship Between Digit Ratio and Interhemispheric Transfer Time**

Wilmon Brown III - Oklahoma State University

Rachel Messer - Oklahoma State University

Shelia Kennison - Oklahoma State University

05.17.03

### **Correlating Effects of Conformity: Egoism and Prosocial Behaviors**

Amber McCoy - University of Central Oklahoma

05.17.04

### **Self, Give Me Strength: The Rise of Self-Esteem Following Child Mortality Salience**

Jenel Cavazos - Cameron University

Christopher Ditzfeld – University of Arkansas Fayetteville

05.17.05

### **Oxytocin as a Mitigator of Aggression**

Stephanie Menotti - University of Central Oklahoma

Amelia Brewer - University of Central Oklahoma

Lindsey Osterman - University of Central Oklahoma

05.17.06

### **Sibling Attachment, Parental Attachment, and Perceived Differential Treatment**

Tiffany Russell - University of Central Oklahoma

Alicia Limke – University of Central Oklahoma

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