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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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Director
Research & Sponsored Programs
Northeastern State University

Dr. Gregory M. Wilson
Assistant Vice President
Office of Research & Grants
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
Higher Education (OSRHE); Oklahoma Experimental Program
for Stimulating Competitive Research (EPSCoR) - National Science

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



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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

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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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Michael Mudd, DPS Printing
Alex Albers, Impressions Printing & Copying
Neal Zucker, Southern Tailors
Karen McCaslin, FastSigns

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and Parking Services
UCO Safety and Transportation Services, Emergency
Management, and Police Services

COMPUTING AND TECHNOLOGY

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



OKLAHOMA RESEARCH DAY 2013 • UCO • EDMOND

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

Zachgery 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

05.03.35

Antidiabetic Effect of Transgenic and Wildtype Safflowers

Noor Ahmed - Northeastern State University

05.03.36

Investigation of differential habitat use by lizards in the Wichita Mountains

Jetta Trammell - Cameron University
Matthew Van Sant - Cameron University

05.03.37

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

05.03.38

The Five Second Rule

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

05.03.39

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

05.03.40

Sandwich ELISA Optimization

Leila Ndomche Kondo - Oklahoma City Community College

05.03.41

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

05.03.42

Buffer Manufacturing

Alayna Trujillo - Oklahoma City Community College

05.03.43

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

05.03.44

A Review of Genetically Engineered Food

Dillon Cave - Northeastern State University

05.03.45

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

05.03.46

Moxibustion

Cale Fulps - Northeastern State University



05.03.47

Transcriptome analysis of oxygen sensing in the model organism Dictyostelium

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

05.03.48

A Review on the Discovery of Dendritic Cells

Miranda Anderson - Northeastern State University

05.03.49

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

05.03.50

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

05.03.51

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

Don Curry - Northeastern State University

05.03.58

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

05.03.59

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

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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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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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Rebecca Wagner - Northeastern State University

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



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

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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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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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Mohamad Al-Rifai - Northeastern State University

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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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Robert DuPriest - Northeastern State University

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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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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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Candy Palmer - Oklahoma City Community College

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Marker Free Genetically Modified (GM) Crops

Bobby Bezinque - Northeastern State University

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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

05.04.09

Mapping Invaders From Heaven: the Ailanthus altissima Population Illustrated

Lisa Castle - Southwestern Oklahoma State University

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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

05.05.03

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

05.05.10

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

05.05.13

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

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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

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Reversed Phase HPLC Analysis of B-Vitamins

Stormie Holcomb - Northeastern State University
Jessica Martin - Northeastern State University

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Synthesis and Evaluation of a New Generation of Highly Acidic Nucleophilic Glycine Equivalents for the Preparation of Unnatural α -amino acids

Trevor Ellis - Southwestern Oklahoma State University

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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

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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

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Biomass Deconstruction to Produce Sugars Using Ionic Liquid

Jude Abia - Northeastern State University
Rashad Ismayilov - Northeastern State University

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Conversion of Vegetable Oil to Biodiesel Using Microwave Irradiation

Tyler Scott - Northeastern State University
Spence Pilcher - Northeastern State University

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Genetic Variation in PPAR γ at Nucleotide 1431 Impairs Obesity Related Phenotypes in Response to Exercise Training.

Martell Mckinney - Langston University

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Cellulosic Ethanol for Biomass Fuel

Justin Watts - Northeastern State University

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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

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Effects of Microwave Irradiation on the Free-Radically Initiated Microemulsion Polymerization of Styrene

Brent Roberts - Northeastern State University
Spence Pilcher - Northeastern State University

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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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Gage Coltrain - Northeastern State University
Christopher Burba - Northeastern State University

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Dustin Baucom - Northeastern State University
Spence Pilcher - Northeastern State University

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Azeezatulai Oyebola - Cameron University
Seth Geiger - Cameron University
Stewart Younger-Mertz - Cameron University
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Kristen Worthen - Cameron University
Nolan Flynn - Cameron University

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Dragos Albinescu - Northeastern State University
Jake Barber - Northeastern State University

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Rajah Singh - Langston University

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Lindsay Davis - Langston University

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Chad Hollifield - Northeastern State University
Christopher Burba - Northeastern State University

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Patrick Harrington - Northeastern State University

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

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

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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

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

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

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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

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

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

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



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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

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Andres Calderon Jaramillo - University of Central Oklahoma
Jicheng Fu - University of Central Oklahoma

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Hong Sung - University of Central Oklahoma
Toan Nguyen - University of Central Oklahoma

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Hong Sung - University of Central Oklahoma
Vinh Luong - University of Central Oklahoma

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Paul Wiechmann - University of Central Oklahoma
Jicheng Fu - University of Central Oklahoma

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Lie Qian - Southeastern Oklahoma State University
Sky Pettett - Southeastern Oklahoma State University

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Quinten Walker - Langston University

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Susan Hanks - University of Central Oklahoma
Jicheng Fu - University of Central Oklahoma

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Wenxi Zeng - University of Central Oklahoma
Jicheng Fu - University of Central Oklahoma

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Warren Moseley - Southwestern Oklahoma State University
Mary Ann Phillips - Southwestern Oklahoma State University

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Cache Memory Simulation
Thomas Turner - University of Central Oklahoma
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Yuqing Yan - University of Central Oklahoma
Jicheng Fu - University of Central Oklahoma

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Jicheng Fu - University of Central Oklahoma
Jianbin Wu - University of Central Oklahoma

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Gang Qian - University of Central Oklahoma
Grzegorz Bugaj - University of Central Oklahoma

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

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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

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

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



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Building a Secure Web site over ASP.NET

Alyssa Baay - University of Central Oklahoma

Myung-Ah Park - University of Central Oklahoma

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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

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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

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

Emelia Chrisco - University of Central Oklahoma

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The Stillwater Auto Burglary Project: A Multidisciplinary Pilot Study

James Lofton - University of Central Oklahoma

Emelia Chrisco - University of Central Oklahoma

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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

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Uses for Flyash in Educational Learning Materials

Wayne Glass - University of Tulsa

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Emissions Solutions through Advancements in Selective Catalytic Reduction Systems

Jeremy Massey - University of Tulsa

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Temperature Compensation for Transmission Crystals

Stephan West - University of Tulsa

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The Design and Building of a Wind Powered Tesla Turbine

Baha Jassemnejad - University of Central Oklahoma

Weldon Wilson - University of Central Oklahoma

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Redundant Communications Processor with Simple Network Management Protocol Monitoring

Baha Jassemnejad - University of Central Oklahoma

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Design and Development of a Digital Impedance Analyzer

Baha Jassemnejad - University of Central Oklahoma

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Design and Optimization of a Modular System for Biofluids Research

Baha Jassemnejad - University of Central Oklahoma

Evan Lemley - University of Central Oklahoma

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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

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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

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Automated Modular Optical Tweezers

Baha Jassemnejad - University of Central Oklahoma

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Automation and Control of a Satellite Antenna Positioning and Alignment System

Baha Jassemnejad - University of Central Oklahoma

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Power Oscillator for a Transcutaneous Energy Transfer – TET System

Baha Jassemnejad - University of Central Oklahoma

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Automation and Remote Control of an Astronomical Observatory

Baha Jassemnejad - University of Central Oklahoma



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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

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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

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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

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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

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Modeling the Structural Mechanics of Cilia and Flagella

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

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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

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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

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Temperature Compensation for Transmission Crystals

Stephan West - University of Tulsa

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Mercury Robot

Blair Baldrige - Oklahoma State University

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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

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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

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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



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Physical Properties of an Electro Active Polymer

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

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Characterizing Fuel Use Rates of Heavy-Duty Diesel

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Heni Fitriani - Oklahoma State University
Phil Lewis - Oklahoma State University

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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

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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

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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

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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

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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

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

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Exothermic Temperature Measurements of Novel PMMA Bone Cements

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



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Brock Ring - University of Central Oklahoma

Andrew Henderson - University of Central Oklahoma

Daniel Atkinson - University of Central Oklahoma

Evan Lemley - University of Central Oklahoma

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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

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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

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Matt Coffman - University of Tulsa

05.08.48

Photoacoustic Imaging in Determination of Tissue Temperature during Laser Irradiation

Wei Chen - University of Central Oklahoma

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A Method for Obtaining a Particle Image Velocimetry

Aric Gillispie - University of Central Oklahoma

Evan Lemley - University of Central Oklahoma

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Synthesis and Optical Properties of pH-Responsive Novel Conjugated Polyampholytes

Wei Chen - University of Central Oklahoma

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Exothermic Temperature Measurements of Novel PMMA Bone Cements

Zhaotong Meng - University of Central Oklahoma

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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

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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

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The State of SANE Trainings in Oklahoma

Ngan Nguyen - University of Central Oklahoma

11. GENETICS

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

Christina Hendrickson - University of Central Oklahoma

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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

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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



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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

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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

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Two Proteins May Protect Red Algal Photosynthesis From High Light Damage

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

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Genetic interaction studies with Drosophila Ard1 suggest a role in regulating alternative cell death pathways

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

12. KINESIOLOGY

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Relationship Between Bone Mineral Density and Exercise Dependence in Female Runners

Hannah Kostecky - University of Central Oklahoma

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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

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

Ioannis Argyros - Cameron University

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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

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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

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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

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

Krystal Brantley - East Central University



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Princess Hays - Langston University

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Tobyn Large - East Central University

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Sarah Schatz - University of Central Oklahoma
Michael Fulkerson - University of Central Oklahoma

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Stephanie Duncan - East Central University
Cady Murphy - East Central University

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Kristi Karber - University of Central Oklahoma
Courtney Simmons - University of Central Oklahoma

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Andres Calderon Jaramillo - University of Central Oklahoma
Larry Lucas - University of Central Oklahoma

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Charlotte Simmons - University of Central Oklahoma
Jesse Byrne - University of Central Oklahoma

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Brittany Bannish - University of Central Oklahoma
James Keener - University of Central Oklahoma
Aaron Fogelson - University of Utah

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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

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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

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

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Sarah Schatz - University of Central Oklahoma
Michael Haszto - University of Central Oklahoma
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Cynthia Murray - University of Central Oklahoma

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Charlotte Simmons - University of Central Oklahoma
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William Radke - University of Central Oklahoma
Myron Pope - University of Central Oklahoma

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Wei Chen - University of Central Oklahoma
John Barthell - University of Central Oklahoma
Charlotte Simmons - University of Central Oklahoma
Evan Lemley - University of Central Oklahoma

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Cerina Stiles - East Central University
Connor Keith - East Central University
Kshitiz Shrestha - East Central University
Robert Brown - East Central University
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Stephanie Maas - East Central University
Stephen Weatherby - East Central University

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Joshua Crittenden - East Central University

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David Stapleton - University of Central Oklahoma

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Nathan Pezant - University of Central Oklahoma
Sean Lavery - University of Central Oklahoma
Brittany Bannish - University of Central Oklahoma



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Heather Magee - University of Central Oklahoma

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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

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

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Lauren Frost - Northeastern State University
April Parker - Northeastern State University
Latricia Pack - Northeastern State University

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Elise Bolay - Northeastern State University
Vanessa Williams - Northeastern State University
Alissa Proctor - Northeastern State University

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

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

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

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

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

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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

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Roger West - Northeastern State University
Nicholas Mondero - Northeastern State University
Russell Crotty - Northeastern State University

15. PHARMACY

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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

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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

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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

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Acoustic Attenuation Coefficient

Kristen Howard - East Central University

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Heterosexism: Can It Predict Homosexual Discrimination in Adoption?

Evelyn Stratmoen - University of Central Oklahoma

Thomas Hancock - University of Central Oklahoma

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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

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Correlating Effects of Conformity: Egoism and Prosocial Behaviors

Amber McCoy - University of Central Oklahoma

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

Jenel Cavazos - Cameron University

Christopher Ditzfeld – University of Arkansas Fayetteville

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Oxytocin as a Mitigator of Aggression

Stephanie Menotti - University of Central Oklahoma

Amelia Brewer - University of Central Oklahoma

Lindsey Osterman - University of Central Oklahoma

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Sibling Attachment, Parental Attachment, and Perceived Differential Treatment

Tiffany Russell - University of Central Oklahoma

Alicia Limke – University of Central Oklahoma

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Personality Correlates of False Confessions

Kathryn Schrantz - University of Central Oklahoma

05.17.08

Demographic Differences in Employee Perceptions of Performance Based Evaluations: A Qualitative Analysis

Brandon Pickens - University of Central Oklahoma

Robert Mather - University of Central Oklahoma

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The Role of Extracurricular Activities on Sexual Behavior

Beau Leaf - University of Central Oklahoma

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Mary Dzindolet - Cameron University

Lana Lucas - Cameron University

Jeff Seger - Cameron University

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Pre-Recorded Power Statement Usage on Collegiate Male Hockey Athletes

Beau Leaf - University of Central Oklahoma

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The Relationship between the Big 5 Personality Factors, Locus of Control, and Political Ideology

Antonio Laverghetta - Cameron University

John Geiger - Cameron University

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On the Structure of Measurement Noise in Eye-Tracking with Ambiguous Figures

Trey Ridlen - University of Central Oklahoma

Yaser Dorri - University of Central Oklahoma

Mickie Vanhoy - University of Central Oklahoma

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The Role of Working Memory in Situation Model Construction

John Geiger - Cameron University

Sarah Dailey - Cameron University

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Genocide Decoded: A History Lesson to Raise Awareness

Carrie Sanchez - Northeastern State University

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Participation in Extracurricular Activities and Alcohol Use Throughout the Lifespan

Hunter Holder - University of Central Oklahoma



05.17.17
Self-control, displaced aggression and power: Impacts for workplace performance?
Shari Beecher - University of Central Oklahoma

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Characteristics of Successful Grant Proposals: Findings and Recommendations
Kathryn Schoonover - Northeastern State University
Arizona Chin - Northeastern State University

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Rebound Effect for Stereotypes Involving Formerly-Convicted Criminals
Sean McMillan - University of Central Oklahoma

05.17.20
Affective Neuroscience: A Perspective on Psychopathology
Heather Coleman - Northeastern State University

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Facial Perception and the Human Neural System
Alyssa Hendrex - Northeastern State University

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Minzhe Wu - University of Central Oklahoma
Tracy Morris - University of Central Oklahoma

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Candace Baker - University of Central Oklahoma
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Kyle Williams - University of Central Oklahoma
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Alleviating Stress in Nursing Students through Peer Mentoring
Brian Gatewood - University of Central Oklahoma
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Alvin Teh - University of Central Oklahoma
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Cynthia Murray - University of Central Oklahoma

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A Logistic Regression Model for Predicting the Success of Nursing Students at UCO
Brian Gatewood - 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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Going For It...What Factors Contribute to a Fourth Down Conversion?
Yuting Wang - University of Central Oklahoma
Tracy Morris - University of Central Oklahoma

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Erik Terdal - Northeastern State University
Ronaldi Martinez – Other

05.19.02
Effects of Blood Sampling on Nestling Scissor-tailed Flycatchers (*Tyrannus forficatus*)
Michael Husak - Cameron University
Diane Landoll - University of Oklahoma

05.19.03
Strength of the Femur and Humeri of Oklahoma Turtles (Order Testudines) Indicated from Structural Analysis of the Bisected Bones
Jessica Steudeman - East Central University

05.19.04
A Morphometric Investigation of Possible Hybridization in Sympatric Regions between *Terrapene carolina triunguis* and *Terrapene ornata ornata*
Timothy Steudeman - East Central University
Kenneth Andrews - East Central University

05.19.05
Responses to Femoral Gland Secretions in Primarily Visually Signaling Collared Lizards
Abigail McGee - University of Central Oklahoma
Troy Baird - University of Central Oklahoma
Anthony Lunsford - University of Central Oklahoma

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Migratory Connectivity in Yellow Rails and Le Conte's Sparrows
Chris Butler - University of Central Oklahoma



05.19.07
The Effect of Habitat Area on Species Richness: Aquatic Macroinvertebrate Assemblages in the Peloncillo Mountains
 Jeremy Massengill - University of Central Oklahoma
 Paul Stone - University of Central Oklahoma

05.19.08
Deuterium Stable Isotope Analysis on Wintering Black Rails of Texas
 Jeffrey Tibbits - University of Central Oklahoma
 Chris Butler - University of Central Oklahoma
 Jennifer Wilson – U. S. Fish and Wildlife Service
 Charles Brower – U. S. Fish and Wildlife Service
 Jeffrey Kelly - University of Oklahoma

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Determining the breeding grounds of Henslow's Sparrows using stable isotope analysis
 Katrina Hucks - University of Central Oklahoma
 Chris Butler - University of Central Oklahoma

05.19.10
Mapping the Winter Distribution of the Eastern Whip-poor-will
 Britney Temple - University of Central Oklahoma
 Chris Butler - University of Central Oklahoma

05.19.11
Modeling the Hybrid Zone for Black-chinned and Ruby-throated Hummingbirds
 Lindsay Jones - University of Central Oklahoma
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