# TABLE OF CONTENTS

**SCHEDULE OF EVENTS**  
Wednesday, April 4 ........................................ 2  
Thursday, April 5 ........................................ 2  
Friday, April 6 ........................................ 3  
Saturday, April 7 ........................................ 4

**WELCOME MESSAGES** ........................................ 5

**COUNCIL ON UNDERGRADUATE RESEARCH** ...................... 14

**NCUR PROCEEDINGS** ........................................ 16

**ACKNOWLEDGEMENTS**  
Sponsors .................................................................. 17  
NCUR 2018 Planning Committees ....................... 20  
Abstract Reviewers .............................................. 24

**GENERAL INFORMATION**  
About UCO .......................................................... 30  
Information Assistance ..................................... 30  
NCUR 2018 T-Shirts .............................................. 31  
Wireless Network Access ................................... 31  
ATM and Banking Services ................................. 32  
Copy/Shipping Services ...................................... 32  
Hospital and Medical Services ........................... 32  
Dining Services .................................................. 33  
Transportation and Parking ................................. 34  
Gender Neutral Restrooms ................................. 37  
Lactation Rooms ................................................ 37  
Faculty/Administrator Lounge ............................ 37  
Student Lounge .................................................. 37

**PRE-CONFERENCE WORKSHOPS** ................................ 42

**PLENARY SPEAKERS** ........................................ 56

**EVENTS**  
Professional Preparation Fair ............................... 64  
Open Houses ....................................................... 66  
Special Interest Sessions ...................................... 67  
Metro Music Fest ................................................ 76  
Excursions .......................................................... 78

**SESSIONS**  
Faculty Administrator Network Sessions ................ 85  
Performing Arts sessions ..................................... 87  
Visual Arts Sessions ............................................ 91  
Oral Sessions .................................................... 93  
Poster Sessions ................................................ 197

**INDEX**  
By Institution .................................................... 316  
By Presenter ....................................................... x  
By Subject ........................................................ x

**NOTES** ................................................................ x

**CAMPUS MAP** .................................................... back cover

**DOWNLOAD THE CONFERENCE APP**  
Stay up to date at NCUR 2018 with the Guidebook app. First, download the Guidebook app to your Apple or Android device. Then, find the NCUR 2018 guide, and you will have the most up-to-date schedule for conference presentations and events. The app allows you to search presentations, create your own schedule, chat with conference attendees, and much more.
SCHEDULE

WEDNESDAY, APRIL 4, 2018
10 a.m. – 6:30 p.m.
REGISTRATION
2nd Floor in front of Legends, Nigh University Center

1 – 7 p.m.
PRE-CONFERENCE WORKSHOPS
(CONCURRENT)
Forensic Science, American Indian Studies, Business Energy Sector, Early Childhood Education through an International Lens, and Interdisciplinary Arts

THURSDAY, APRIL 5, 2018
7 a.m. – 5 p.m.
REGISTRATION
Food Court, Nigh University Center

7 – 9 a.m.
BREAKFAST
• Ballrooms, Nigh University Center
• Buddy’s Cafeteria

8:45 – 10:30 a.m.
WELCOME AND OPENING CEREMONY
Plenary Speaker – Hamilton Field House
• Claudia San Pedro, President, SONIC®, America’s Drive-In®
• Ramu Damodaran, Deputy Director for Partnerships and Public Engagement, United Nations Department of Public Information Outreach Division and Chief of the Academic Impact Initiative, United Nations

10:45 a.m. – 5 p.m.
PROFESSIONAL PREPARATION FAIR
Wellness Center

4 – 6 p.m.
GALLERY EXHIBITION OPENING, VISUAL ART
Melton Gallery

4 – 6 p.m.
TOUR OF CAMPUS FACILITIES AND LABS

FRIDAY, APRIL 6, 2018
7 a.m. – 5 p.m.
REGISTRATION
2nd Floor in front of Legends, Nigh University Center

7 – 9 a.m.
BREAKFAST
• Ballrooms, Nigh University Center
• Buddy’s Cafeteria
• Food Tent – Wellness Center

10:45 – 11:45 a.m.
SESSION 1: ORAL/PERFORMING ARTS/POSTER
Various Locations

11:30 a.m. – 2 p.m.
LUNCH
• Ballrooms – Nigh University Center
• Buddy’s Cafeteria
• Food Tent – Wellness Center

Noon – 12:50 p.m.
FACULTY AND ADMINISTRATOR NETWORK (FAN)
SESSION 1
Old North

1 – 2 p.m.
SESSION 2: ORAL/PERFORMING ARTS/POSTER
Various Locations

1 – 1:50 p.m.
SPECIAL INTEREST SESSIONS
Classrooms

2 – 2:50 p.m.
SPECIAL INTEREST SESSIONS
Classrooms

3 – 6 p.m.
FUN @ PLUNKETT PARK (SNACKS PROVIDED)

3:40 – 4:40 p.m.
SESSION 4: ORAL/PERFORMING ARTS/POSTER
Various Locations

4:45 – 10:45 a.m.
SESSION 6: ORAL/VISUAL/PERFORMING ARTS/POSTER
Various Locations

11 a.m. – 12:15 p.m.
PLENARY SPEAKER 2
Hamilton Field House
Kareem Abdul-Jabbar, retired professional basketball player, author and chairman, Skyhook Foundation

11:45 a.m. – 2 p.m.
LUNCH
• Ballrooms – Nigh University Center
• Buddy’s Cafeteria
• Food Tent – Wellness Center

12:30 – 1:20 p.m.
FACULTY AND ADMINISTRATOR NETWORK (FAN)
SESSION 3
Old North

1 – 1:50 p.m.
SPECIAL INTEREST SESSIONS
Classrooms

2:20 – 3:20 p.m.
SESSION 3: ORAL/PERFORMING ARTS/POSTER
Various Locations

3 – 6 p.m.
GALLERY EXHIBITION, VISUAL ART
Melton Gallery

8:30 a.m. – 5 p.m.
SESSION 5: ORAL/VISUAL/PERFORMING ARTS/POSTER
Various Locations

8:30 a.m. – 5 p.m.
PROFESSIONAL PREPARATION FAIR
Wellness Center

8:45 – 10:45 a.m.
SESSION 6: ORAL/VISUAL/PERFORMING ARTS/POSTER
Various Locations

11 a.m. – 12:15 p.m.
PLENARY SPEAKER 2
Hamilton Field House
Kareem Abdul-Jabbar, retired professional basketball player, author and chairman, Skyhook Foundation

11:45 a.m. – 2 p.m.
LUNCH
• Ballrooms – Nigh University Center
• Buddy’s Cafeteria
• Food Tent – Wellness Center

12:30 – 1:20 p.m.
FACULTY AND ADMINISTRATOR NETWORK (FAN)
SESSION 3
Old North

1 – 1:50 p.m.
SPECIAL INTEREST SESSIONS
Classrooms

2:20 – 3:20 p.m.
SESSION 3: ORAL/PERFORMING ARTS/POSTER
Various Locations

3 – 6 p.m.
GALLERY EXHIBITION, VISUAL ART
Melton Gallery

8:30 a.m. – 5 p.m.
SESSION 5: ORAL/VISUAL/PERFORMING ARTS/POSTER
Various Locations

8:30 a.m. – 5 p.m.
PROFESSIONAL PREPARATION FAIR
Wellness Center

8:45 – 10:45 a.m.
SESSION 6: ORAL/VISUAL/PERFORMING ARTS/POSTER
Various Locations

11 a.m. – 12:15 p.m.
PLENARY SPEAKER 2
Hamilton Field House
Kareem Abdul-Jabbar, retired professional basketball player, author and chairman, Skyhook Foundation

11:45 a.m. – 2 p.m.
LUNCH
• Ballrooms – Nigh University Center
• Buddy’s Cafeteria
• Food Tent – Wellness Center

12:30 – 1:20 p.m.
FACULTY AND ADMINISTRATOR NETWORK (FAN)
SESSION 3
Old North

1 – 1:50 p.m.
SPECIAL INTEREST SESSIONS
Classrooms
WELCOME FROM THE UNIVERSITY OF CENTRAL OKLAHOMA

We are delighted to welcome you to the 2018 National Conference on Undergraduate Research at the University of Central Oklahoma. UCO is Oklahoma’s Metropolitan University serving the citizens and the enterprises of the vibrant Oklahoma City Metro. We are an avid, collaborative partner in creating OKC’s future.

Undergraduate research is a valued priority here and one of the Central Six Tenets which comprise our institutional and personal commitment to Transformative Learning. UCO was one of the founding universities for Oklahoma Research Day 20 years ago, which annually celebrates the accomplishments of students from across the state.

We are pleased to welcome the thousands of students, faculty mentors and administrators from throughout America and beyond to our campus, Edmond and OKC. We embrace the value of scholarly research across the broad spectrum of disciplines that define a university.

A key ingredient in this institutional priority is the relationships connecting our faculty to our students. The results continue to be encouraging and are helping us redefine the parameters of higher education.

UCO began as the original Territorial Normal School of Oklahoma 17 years prior to statehood. From that first class of 23 and our initial five graduates in the 1890s, UCO now serves the aspirations of 16,000 students by connecting with them to realize success and embrace opportunity. Here at Central, we strive to create a culture of learning, leading and serving. Our university faculty, staff and students have been diligently preparing for your arrival. We look forward to meeting you at one of the pre-conference events, at our guest presenters’ plenary sessions, and when you are presenting the results of your research, scholarly and creative efforts.

I encourage you to explore the numerous attractions in the metro, spend time in Bricktown and enjoy the Metro Music Festival produced by the Academy of Contemporary Music at UCO. OKC’s Boathouse/ Whitewater Rafting District is a one-of-a-kind attraction and the eclectic food scene offers a wide variety of local and global cuisines.

I applaud your success in participating in NCUR 2018. Your institutions and mentors believe in you and your capacities to harvest valuable experiences during your time here at NCUR, UCO and in Oklahoma.

I hope you leave here invigorated in your passion for learning and connected to new friends and ideas.

We at the University of Central Oklahoma look forward to your return and to fresh possibilities for collaboration.

Don Betz
President
University of Central Oklahoma
WELCOME FROM THE UNIVERSITY OF CENTRAL OKLAHOMA

On behalf of the University of Central Oklahoma, it is our pleasure to welcome you to the 2018 National Conference on Undergraduate Research!

We are honored to co-host this annual event, now in its 32nd year, with the Council on Undergraduate Research: the world’s largest undergraduate research conference.

The theme of this year’s conference, “Connection to Place”, is particularly meaningful in our state. Our dynamic state history has roots in the cultures of many people and a diverse geography of ancient mountains, rolling plains and desert mesas. We hope, through exploring the history and culture of Oklahoma, you will be inspired to examine your own connections to place and find meaning in the richness of the place you will explore with us April 4-7.

To enhance your experience, we have planned several excursions on Saturday, April 7, to some of our most well-known places of interest. Each of the excursions tells a particular story of the people of Oklahoma. The Chickasaw Cultural Center, for example, gives insight into the individuals and families who persevered amidst hardships, such as the Trail of Tears, held onto sacred customs and grew into the thriving community it is today. The Oklahoma City National Memorial and Museum marks a moment in our history when our sense of security was challenged and the strength of community was unmistakable in the aftermath of the Alfred P. Murrah Federal Building bombing. In addition, the Oklahoma City Museum of Art in the Arts District and RIVERSPORT Adventures in the Boathouse District, along the Oklahoma River, highlight the energy and vibrancy of Oklahomans in the 21st century. It is our hope you will take this time to ponder the ways a place reflects the people who call it home.

We congratulate you for being invited to present your research at NCUR 2018. We hope that you enjoy the conference, meet new friends and potential life-long colleagues and enjoy the local community and culture that Edmond, Oklahoma City and the state of Oklahoma have to offer. We welcome you to our campus. No matter where you call home, we hope you will leave Oklahoma with a deeper connection to this place we call our home.

John F. Barthell, Ph.D.
Provost and Vice President for Academic Affairs
University of Central Oklahoma

WELCOME FROM THE CUR EXECUTIVE OFFICER

Greetings,

The Council on Undergraduate Research (CUR) is pleased and honored to congratulate the more than 4,000 undergraduate researchers, faculty mentors and other supporters of undergraduate research achievement who are participating in the 32nd National Conference on Undergraduate Research (NCUR). Hosted by the University of Central Oklahoma, supported strongly by Oklahoma’s higher education and business sectors, and featuring exciting pre-conference sessions, the 32nd NCUR promises to be an exuberant celebration of scholarship in its varied expressions. As an NCUR 2018 participant, you are part of a long cherished tradition, one that annually celebrates and commemorates outstanding research, scholarship and creative inquiry undertaken by undergraduate students and their faculty mentors.

“Connection to Place” is the resonant title for this year’s NCUR, and it also speaks to CUR’s engagement as the voice of undergraduate research for diverse institutions that apply their undergraduate research programs to serve communities and regions. CUR serves its members by providing valued services and programs to more than 13,000 individual members at close to 1,000 affiliated colleges, universities and associations. If you are not yet familiar with all that CUR has to offer, we invite you to learn more about our organization. We particularly encourage all undergraduate students interested in progressing to graduate study to sign up for CUR’s registry on our website at www.cur.org.

As attendees have found with past conferences, I predict that NCUR 2018 will be an incredibly powerful, moving and highly memorable experience for all participants. It is with sincere gratitude that CUR thanks University of Central Oklahoma and the greater Oklahoma education and business community for hosting this year’s conference and for rolling out a warm and inclusive welcome to all involved.

Elizabeth Ambos
CUR Executive Officer
Washington, D.C.
WELCOME FROM THE CUR PRESIDENT

Welcome to the National Conference on Undergraduate Research. The University of Central Oklahoma has done an incredible job preparing for NCUR with an all-star lineup of plenary speakers, the Professional Preparation Fair and the addition of pre-conference workshops. I would like to congratulate all of the students selected to present at NCUR and thank their mentors for the support and guidance they have provided. NCUR is unlike any other conference I have attended, as you have the opportunity to experience research, scholarship, and creative activities from all disciplines, to network with students and faculty from institutions across the country and world, and to explore unique community-based activities and venues. I encourage all attendees to make the most of this opportunity by attending a diversity of sessions, both within and outside of your field, gaining new perspective on the meaning of mentorship from our plenary speakers, and exploring Edmond, Oklahoma City and the Metro Music Festival.

I would like to thank the teams at University of Central Oklahoma, Council on Undergraduate Research National Office and the CUR-NCUR Oversight Committee for all of their work on the conference.

Have a great time at UCO, Edmond and the surrounding area!

Anne Boettcher
President, Council on Undergraduate Research
Director, Undergraduate Research Institute and Honors Program
Embry-Riddle Aeronautical University, Prescott, Arizona

WELCOME FROM THE NCUR OVERSIGHT COMMITTEE

Greetings NCUR 2018 Participants,

On behalf of the NCUR Oversight Committee, it is with great excitement that I welcome you to Central Oklahoma and to the 32nd Annual National Conference on Undergraduate Research. Researchers, artists, performers—we come together to celebrate your intellectual work with pride in what you have accomplished and high expectations for what you will go on to do with the skills you have gained.

By coming to share what you have learned and created, you take on a new role in the community of scholars—a community that is nurtured by many institutions but is not bound by any individual institutional walls, one that is eager to welcome you to what we hope is a lifetime of engagement in your field in many ways. We hope your presentation at this conference represents a first step in a long career of finding joy in intellectual discovery and sharing your discoveries with the rest of us. Consider sharing your work even further by publishing in the NCUR 2018 Proceedings.

We thank your home institutions for nurturing and supporting you, and we thank the University of Central Oklahoma for hosting us all. Over the next three days, may you find renewed excitement for your own work, admiration for and connection to discoveries across many disciplines as you attend your peers’ presentations, and an even greater enthusiasm for the world of intellectual scholarship to carry forward with you.

Anne Johnson
Chair, NCUR Oversight Committee
Associate Professor of Psychology and Neuroscience, Moravian College
Bethlehem, Pennsylvania
Discover WPI—a premier technological university offering 50+ graduate programs in science, engineering, and business.

Our graduate students’ transformative research changes the world for the better.

grad.wpi.edu
We’re Proud to Help
OKLAHOMA GROW

Comprised of over 150 Oklahoma corporations and business groups, the Oklahoma Business Roundtable serves as the state's primary economic development support organization.

We are a collaborative non-profit group whose sole purpose is advancing Oklahoma’s economic development. We support programs that focus on business start-up, expansion, recruitment and workforce development.

During the past 26 years, the Roundtable has supported hundreds of state, national and global business promotion activities – resulting in thousands of jobs and millions of dollars in corporate investment throughout Oklahoma. Our members are committed to the growth and diversification of our state’s economy.

We invite you to join us in our efforts! Contact us today.

PRESIDENT/CEO
Ann Ackerman, Ph. D.

Oklahoma Business Roundtable
655 Research Parkway, Suite 420
Oklahoma City, Oklahoma 73104 | 405-235-3787
www.okbusinessroundtable.com

HIGHER EDUCATION RESEARCH
Driving Advancement and Innovation

The Oklahoma State Regents for Higher Education and our public colleges and universities, in collaboration with OneNet and Oklahoma EPSCoR, engage in groundbreaking research in a wide variety of disciplines. This important work is made possible through partnerships with entities across Oklahoma and the nation. Our 25 state system colleges and universities are projected to bring more than $650 million in sponsored and federal funding into our state in FY 2018.

We thank our state and federal partners for their support of research in Oklahoma public higher education, including:

- GEAR UP
- Great Plains Network
- Internet2
- NASA
- National Institutes of Health
- National Science Foundation
- National Weather Center
- Oklahoma Department of Wildlife and Conservation
- Oklahoma Geological Survey
- Oklahoma Medical Research Foundation
- Pacific Wave International Exchange
- Tandy Supercomputing Center
- The National Telecommunications and Information Administration
- The Quilt
- U.S. Department of Agriculture
- U.S. Department of Homeland Security

We thank our state and federal partners for their support of research in Oklahoma public higher education, including:

- GEAR UP
- Great Plains Network
- Internet2
- NASA
- National Institutes of Health
- National Science Foundation
- National Weather Center
- Oklahoma Department of Wildlife and Conservation
- Oklahoma Geological Survey
- Oklahoma Medical Research Foundation
- Pacific Wave International Exchange
- Tandy Supercomputing Center
- The National Telecommunications and Information Administration
- The Quilt
- U.S. Department of Agriculture
- U.S. Department of Homeland Security

Oklahoma Business Roundtable
655 Research Parkway, Suite 420
Oklahoma City, Oklahoma 73104 | 405-235-3787
www.okbusinessroundtable.com
The Executive Board, in turn, chooses an executive officer who manages the national office. CUR's principal support comes from its dues-paying individual and institutional members. CUR accepts grants, contracts, and contributions, as well as provides conferences and other services for fees.

CONTACT CUR
Council on Undergraduate Research
734 15th Street NW, Suite 850, Washington, DC 20005
Tel: 202-783-4810 | Fax: 202-783-4811 | www.cur.org | cur@cur.org

THE COUNCIL ON UNDERGRADUATE RESEARCH

WHAT IS CUR?
Founded in 1978, the Council on Undergraduate Research (CUR) is a national 501(c) (3) nonprofit educational organization that supports and promotes high-quality research, scholarship and creative inquiry of undergraduate-faculty teams. CUR's more than 13,000 individual and institutional members represent more than 900 higher education institutions and affiliated organizations from around the world.

CUR believes that all faculty members enhance their teaching and contribution to society by remaining active in research and by involving students in these activities. CUR's leadership works with agencies and foundations to enhance research opportunities for faculty and students.

WHAT IS UNDERGRADUATE RESEARCH?
CUR defines undergraduate research as an inquiry or investigation conducted by an undergraduate student that makes an original intellectual or creative contribution to the discipline.

WHAT SERVICES DOES CUR PROVIDE?
Among other activities, the organization:

- Supports faculty and administrator development through expert-designed institutes and conferences.
- Publishes a peer-reviewed journal and books, as well as provides community platforms, social media postings, and other resources related to mentoring undergraduate researchers and creating, managing, and evaluating undergraduate research programs.
- Assists administrators and faculty members in improving and assessing the research and undergraduate education environments at their institutions.
- Hosts annual conferences showcasing the work of undergraduate researchers such as the National Conference on Undergraduate Research, which involves more than 4,000 students and their faculty mentors from the United States and other countries, and the Posters on the Hill event, which is hosted on Capitol Hill in Washington, D.C.
- Provides information on the importance of undergraduate research to state legislatures, private foundations, government agencies and the U.S. Congress.
- Fosters diversity and inclusion in undergraduate research through a variety of initiatives, including international collaborations.

CUR’s 13 divisions encompass arts and humanities, biology, chemistry, education, engineering, geosciences, health sciences, mathematics and computer science, physics and astronomy, psychology, and social science, as well as include divisions serving administrators and other disciplines, and directors of undergraduate research programs. Members of CUR’s divisions elect the CUR Council. CUR Councilors assist in the design and implementation of initiatives to achieve the organization’s goals. They also elect the Executive Board, CUR’s governing body.
CONFERENCE PROCEEDINGS
One benefit of presenting at NCUR is the opportunity for students to publish their work in the conference proceedings, produced annually by the University of North Carolina at Asheville and distributed to institutions across the nation. All student presenters at the conference (including students in the performing/visual arts) are invited to submit manuscripts for review by the Proceedings board.

Submitting work to the Proceedings has many advantages, two of which are deemed especially important:
- The opportunity to receive comments from faculty outside your college or university, thereby enhancing the paper for submission to other sources in your field.
- The opportunity to list your publication on your resume for graduate and professional school applications.

The Proceedings are published annually as a service of UNC Asheville, and the included papers are representative of the research presented at the conference. Publication release date for 2018 is November 30, 2018.

Published papers from 2012, 2013 and 2014 can be viewed at www.ncurproceedings.org.

PAPER SUBMISSION DATES AND FEE SCHEDULE
Electronic Paper submission: January 14, 2018 – June 15, 2018
NO papers will be accepted after June 15, 2018.

There are no fees for processing your paper.

SUBMISSION GUIDELINES
Send an email with your intent to submit a paper to ncureditorialstaff@unca.edu and you will receive a username and pin with instructions on how to upload your paper to the www.ncurproceedings.org site. Your username and pin will be different from the abstract username and pin submission.

CONTACT
NCUR Proceedings
ncureditorialstaff@unca.edu
University of North Carolina Asheville
The University of Central Oklahoma extends its deep appreciation to the numerous UCO students, faculty, staff and members of the Edmond/Oklahoma City community, who contributed their time and effort by serving on 22 planning committees to ensure a successful conference.

### NCUR 2018 PLANNING COMMITTEES

**NCUR 2018 EXECUTIVE COMMITTEE**
- Don Betz
- John Barthell
- Myron Pope
- Charlotte Simmons
- Nancy Busby
- Beverly Prosser
- Karen Youngblood
- Rick Vega
- Gregory Wilson, Co-chair
- Michael Springer, Co-chair

**BUDGET AND FINANCE**
Patti Neuhold, Chair
- Lisa Kern

**CAMPUSS ENGAGEMENT**
Cole Stanley, Chair
- Donna Cobb
- Evan Lemley
- Robert Mather
- Michael Springer
- Greg White
- Therese Williams

**COMMUNICATIONS AND INFORMATION**
Dana Jackson-Hardwick, Chair
- Craig Beuchaw (Team Lead-Conference Signage, Graphic Design and Brochures)
- Zachary Dumas
- Stephanie Edwards (Team Lead-Situation Room)
- Vickie Garlitz (Team Lead-Conference Website)
- Blair Goforth (Team Lead-Conference Phone and Email)
- Amy Johnson
- Jean Longo (Team Lead-Conference Swag)

**ACCOMMODATIONS**
Rick Vega, Chair
- Jennifer Alexander
- Chris Barton

**ABSTRACT REVIEW**
Sean Laverty, Chair
- Pam McDown, Past Chair
- Caroline Bentley
- Brandon Burr
- Lilian Chooback
- Jicheng Fu
- Michelle Haynie
- Tina Kambour
- Caleb Lack
- Lalit Manral
- Teresa Moinette
- Teresa Pac
- Melissa Powers
- Jessica Sheez-Nguyen
- Nicole Warehime
- Gang Xu

**ACKNOWLEDGEMENTS**

<table>
<thead>
<tr>
<th>University of Central Oklahoma</th>
</tr>
</thead>
<tbody>
<tr>
<td>THE COUNCIL ON UNDERGRADUATE RESEARCH</td>
</tr>
<tr>
<td>UNIVERSITY OF CENTRAL OKLAHOMA</td>
</tr>
</tbody>
</table>
ACKNOWLEDGEMENTS

- Tina Kambour (Team Lead-Interdisciplinary Arts)
- David Macey (Co-Team Lead-American Indian Studies)
- Timothy Petete (Co-Team Lead-American Indian Studies)
- Janette Wetsel (Team Lead-Early Childhood Education, International Lens)
- Zhen Zhu (Team Lead-Business Energy Sector)

PRESENTATIONS
Charleen Weidell, Tracey Romano, Chairs
- Kelly Ross
- Johnny Watley

PROGRAM
Adrienne Nobles, Chair
- Craig Beuchaw
- Amy Johnson
- Sarah Neese

PUBLIC SAFETY AND MANAGEMENT
Norman Nieves, Chair
- Julius Adkins
- Jeff Boyland
- Dean Findley
- Jeff Harp
- Patrick Harrel
- Robin Lacy
- Brent Miller

SPECIAL ACTIVITIES
Kay Robinson, Chair
- Brian Blevins
- Ellen Engh
- Jessica Graro
- Kyle Howerton
- Chrissy Kyles
- Alex Le
- Jared Scism

PROFESSIONAL PREPARATION FAIR
Elizabeth Enck, Chair
- Lana Canale
- Amanda Davis
- Jeff Hicks
- Will Heckenkemper

TRANSPORTATION AND PARKING
Josh Stone, Chair
- Kris Pittman
- Ginger Pitts
- Alex Roush
- Karen Youngblood
- factor 110 | Destination Oklahoma
- Oklahoma City Convention & Visitors Bureau
- Edmond Convention & Visitors Bureau

UNIVERSITY OF CENTRAL OKLAHOMA COLLEGES
- College of Business
- College of Education & Professional Studies
- College of Fine Arts & Design
- College of Liberal Arts
- College of Mathematics & Science
- Jackson College of Graduate Studies

SPECIAL THANKS TO:
- Don Betz, President
- John Barthell, Provost & VP Academic Affairs
- Amy Johnson, Chair, Department of Design
- Kat Winstead, Ryan Richards, Austin Moore, UCO Design InkTank Studio
- Lisa Kern, Manager Finance & Operations, Academic Affairs
- Scott Booker, Chief Executive Officer, ACM@UCO
- Office of Research & Sponsored Programs
- Office of High-Impact Practices
- Office of Information Technology
- Office of University Communications
- UCO Office of Legal Counsel
- UCO Native American Student Association
- UCO Native American Faculty and Staff Association
- UCO Research Advisory Council
- UCO Undergraduate Research and Creative Activity Team
- Lawrence Krone, eCommerce Coordinator
- James Powers, Bursar
- Claudia San Pedro, President, SONIC®, America’s Drive-In®
- Ramu Damodaran, Deputy Director for Partnerships and Public Engagement, United Nations Department of Public Information’s Outreach Division and Chief of the Academic Impact Initiative, United Nations
- Kareem Abdul-Jabbar, retired professional basketball player, author and chairman, Skyhook Foundation

ACKNOWLEDGEMENTS

- Commander John Herrington, Ambassador, Chickasaw Nation, former NASA astronaut
- The City of Edmond
- The City of Oklahoma City
- Edmond Convention & Visitors Bureau
- Oklahoma City Convention & Visitors Bureau
- Ray Hibbard, Edmond Life and Leisure
- Elizabeth Ambos, Executive Officer, CUR National Office
- Liz Fray Hains, Manager, Student Programs, CUR National Office
- Scott Bassford, North Apps, LLC
- NCUR Oversight Committee (NOC), Sarah Johnson, Chair
- Melinda Jones, Chair, NCUR 2017

ACKNOWLEDGEMENTS

- Commander John Herrington, Ambassador, Chickasaw Nation, former NASA astronaut
- The City of Edmond
- The City of Oklahoma City
- Edmond Convention & Visitors Bureau
- Oklahoma City Convention & Visitors Bureau
- Ray Hibbard, Edmond Life and Leisure
- Elizabeth Ambos, Executive Officer, CUR National Office
- Liz Fray Hains, Manager, Student Programs, CUR National Office
- Scott Bassford, North Apps, LLC
- NCUR Oversight Committee (NOC), Sarah Johnson, Chair
- Melinda Jones, Chair, NCUR 2017

ACKNOWLEDGEMENTS

- Commander John Herrington, Ambassador, Chickasaw Nation, former NASA astronaut
- The City of Edmond
- The City of Oklahoma City
- Edmond Convention & Visitors Bureau
- Oklahoma City Convention & Visitors Bureau
- Ray Hibbard, Edmond Life and Leisure
- Elizabeth Ambos, Executive Officer, CUR National Office
- Liz Fray Hains, Manager, Student Programs, CUR National Office
- Scott Bassford, North Apps, LLC
- NCUR Oversight Committee (NOC), Sarah Johnson, Chair
- Melinda Jones, Chair, NCUR 2017

ACKNOWLEDGEMENTS

- Commander John Herrington, Ambassador, Chickasaw Nation, former NASA astronaut
- The City of Edmond
- The City of Oklahoma City
- Edmond Convention & Visitors Bureau
- Oklahoma City Convention & Visitors Bureau
- Ray Hibbard, Edmond Life and Leisure
- Elizabeth Ambos, Executive Officer, CUR National Office
- Liz Fray Hains, Manager, Student Programs, CUR National Office
- Scott Bassford, North Apps, LLC
- NCUR Oversight Committee (NOC), Sarah Johnson, Chair
- Melinda Jones, Chair, NCUR 2017

ACKNOWLEDGEMENTS

- Commander John Herrington, Ambassador, Chickasaw Nation, former NASA astronaut
- The City of Edmond
- The City of Oklahoma City
- Edmond Convention & Visitors Bureau
- Oklahoma City Convention & Visitors Bureau
- Ray Hibbard, Edmond Life and Leisure
- Elizabeth Ambos, Executive Officer, CUR National Office
- Liz Fray Hains, Manager, Student Programs, CUR National Office
- Scott Bassford, North Apps, LLC
- NCUR Oversight Committee (NOC), Sarah Johnson, Chair
- Melinda Jones, Chair, NCUR 2017

ACKNOWLEDGEMENTS

- Commander John Herrington, Ambassador, Chickasaw Nation, former NASA astronaut
- The City of Edmond
- The City of Oklahoma City
- Edmond Convention & Visitors Bureau
- Oklahoma City Convention & Visitors Bureau
- Ray Hibbard, Edmond Life and Leisure
- Elizabeth Ambos, Executive Officer, CUR National Office
- Liz Fray Hains, Manager, Student Programs, CUR National Office
- Scott Bassford, North Apps, LLC
- NCUR Oversight Committee (NOC), Sarah Johnson, Chair
- Melinda Jones, Chair, NCUR 2017
### ABSTRACT REVIEW COORDINATORS
We thank the following for serving as abstract coordinators and helping to assign each of roughly 4,000 abstracts to the appropriate reviewer:

<table>
<thead>
<tr>
<th>Coordinator Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tawni Holmes</td>
</tr>
<tr>
<td>Eric Horstick</td>
</tr>
<tr>
<td>Amanda Horton</td>
</tr>
<tr>
<td>Mohammad Robiul Hossan</td>
</tr>
<tr>
<td>Kuang-Chung Hsu</td>
</tr>
<tr>
<td>Daniel Hubler</td>
</tr>
<tr>
<td>Charles Hughes</td>
</tr>
<tr>
<td>Erik Huneke</td>
</tr>
<tr>
<td>Mike Husak</td>
</tr>
<tr>
<td>John Ice</td>
</tr>
<tr>
<td>Vicki Jackson</td>
</tr>
<tr>
<td>Nicholas Jacob</td>
</tr>
<tr>
<td>Tephillah Jeyaraj-Powell</td>
</tr>
<tr>
<td>Yuhao Jiang</td>
</tr>
<tr>
<td>Chintamani Jog</td>
</tr>
<tr>
<td>Rachel Jones</td>
</tr>
<tr>
<td>Zach Jones</td>
</tr>
<tr>
<td>Minje Jung</td>
</tr>
<tr>
<td>Tina Kambour</td>
</tr>
<tr>
<td>Chad King</td>
</tr>
<tr>
<td>James Klages</td>
</tr>
<tr>
<td>Hari Kotturi</td>
</tr>
<tr>
<td>Susan Kovats</td>
</tr>
<tr>
<td>Caleb Lack</td>
</tr>
<tr>
<td>Samuel Ladwig</td>
</tr>
<tr>
<td>Jill Lambeth</td>
</tr>
<tr>
<td>Liz Lane-Harvard</td>
</tr>
<tr>
<td>Chelsea Larabee</td>
</tr>
<tr>
<td>Sean Laverty</td>
</tr>
<tr>
<td>Dana Lee</td>
</tr>
<tr>
<td>Oksun Lee</td>
</tr>
<tr>
<td>Evan Lemley</td>
</tr>
<tr>
<td>Sharon Lewis</td>
</tr>
<tr>
<td>Alicia Limke-Mclean</td>
</tr>
<tr>
<td>Mike Litzau</td>
</tr>
<tr>
<td>Janet Livesey</td>
</tr>
<tr>
<td>Lynda Loucks</td>
</tr>
<tr>
<td>Jeanette Loutsch</td>
</tr>
<tr>
<td>Linda Luna</td>
</tr>
<tr>
<td>Frank Lynch</td>
</tr>
<tr>
<td>Jaclyn Maass</td>
</tr>
<tr>
<td>J. David Macey</td>
</tr>
<tr>
<td>Karen Manna</td>
</tr>
<tr>
<td>Lalit Manral</td>
</tr>
<tr>
<td>Robert Mathers</td>
</tr>
<tr>
<td>Scott Mattison</td>
</tr>
<tr>
<td>Daniel McInnes</td>
</tr>
<tr>
<td>Sean McMillan</td>
</tr>
<tr>
<td>Neil Metz</td>
</tr>
<tr>
<td>Cornelia Mihai</td>
</tr>
<tr>
<td>Susan Miller</td>
</tr>
<tr>
<td>Jesse Miller</td>
</tr>
<tr>
<td>Ronald Miller</td>
</tr>
<tr>
<td>Jacen Moore</td>
</tr>
<tr>
<td>Tracy Morris</td>
</tr>
<tr>
<td>Sami Murithi</td>
</tr>
<tr>
<td>Margaret Musgrove</td>
</tr>
<tr>
<td>Mike Nelson</td>
</tr>
<tr>
<td>April Nesbit</td>
</tr>
<tr>
<td>Dallas New</td>
</tr>
<tr>
<td>Mihai Nica</td>
</tr>
<tr>
<td>Rebecca Nicholson-Weir</td>
</tr>
<tr>
<td>Valerie O’Brien</td>
</tr>
<tr>
<td>Jaclyn Olson</td>
</tr>
<tr>
<td>Paul Olson</td>
</tr>
<tr>
<td>Andrew Oster</td>
</tr>
<tr>
<td>Clark Ovrebo</td>
</tr>
<tr>
<td>Teresa Pac</td>
</tr>
<tr>
<td>Chad Perry</td>
</tr>
<tr>
<td>Sarah Peters</td>
</tr>
<tr>
<td>Joanne Peterson</td>
</tr>
<tr>
<td>Timothy Petete</td>
</tr>
<tr>
<td>Melissa Powers</td>
</tr>
<tr>
<td>Gang Qian</td>
</tr>
<tr>
<td>Lie Qian</td>
</tr>
<tr>
<td>Shay Rahm</td>
</tr>
<tr>
<td>William Ranahan</td>
</tr>
<tr>
<td>Shelley Rees</td>
</tr>
<tr>
<td>Frankie Wood-Black</td>
</tr>
<tr>
<td>Gang Xu</td>
</tr>
<tr>
<td>Joanna Shadlow</td>
</tr>
<tr>
<td>Brett Sharp</td>
</tr>
<tr>
<td>Jason Shaw</td>
</tr>
<tr>
<td>Jessica Sheetz-Ngyuen</td>
</tr>
<tr>
<td>Rash Shukla</td>
</tr>
<tr>
<td>Scott Singleton</td>
</tr>
<tr>
<td>Hong Sung</td>
</tr>
<tr>
<td>Leonard Thomas</td>
</tr>
<tr>
<td>Sandra Thompson</td>
</tr>
<tr>
<td>Thomas Turner</td>
</tr>
<tr>
<td>Matthew Van Sant</td>
</tr>
<tr>
<td>Mickie Vanhoy</td>
</tr>
<tr>
<td>Theresa Vaughan</td>
</tr>
<tr>
<td>Mel Vaughan</td>
</tr>
<tr>
<td>Santa Velez</td>
</tr>
<tr>
<td>Michele Wages</td>
</tr>
<tr>
<td>Edward Walker</td>
</tr>
<tr>
<td>Meng Wang</td>
</tr>
<tr>
<td>Ethan Waples</td>
</tr>
<tr>
<td>Nicole Warehime</td>
</tr>
<tr>
<td>Loide Wasmund</td>
</tr>
<tr>
<td>Amanda Waters</td>
</tr>
<tr>
<td>Ann West</td>
</tr>
<tr>
<td>Lane Whitesell</td>
</tr>
<tr>
<td>Anastasia Wickham</td>
</tr>
<tr>
<td>Rebecca Williams</td>
</tr>
<tr>
<td>Joey Williams</td>
</tr>
<tr>
<td>Scott Williams</td>
</tr>
<tr>
<td>Karen Williams</td>
</tr>
<tr>
<td>Greg Wilson</td>
</tr>
<tr>
<td>Weldon Wilson</td>
</tr>
<tr>
<td>Jime Wimmer</td>
</tr>
<tr>
<td>Frankie Wood-Black</td>
</tr>
<tr>
<td>Gang Xu</td>
</tr>
<tr>
<td>Narges Abdali</td>
</tr>
<tr>
<td>KJ Abraham</td>
</tr>
<tr>
<td>Alaeddin Abuabed</td>
</tr>
<tr>
<td>Gholam Ahmadiifar</td>
</tr>
<tr>
<td>Abdallah Ait Moussa</td>
</tr>
<tr>
<td>Elizabeth Allan</td>
</tr>
<tr>
<td>Nesreen Alsobu</td>
</tr>
<tr>
<td>Tonnia L. Anderson</td>
</tr>
<tr>
<td>Kristi Archuleta</td>
</tr>
<tr>
<td>Dorie Astle</td>
</tr>
<tr>
<td>LaDonna Atkins</td>
</tr>
<tr>
<td>Brittany Bannish</td>
</tr>
<tr>
<td>Amy Barnett</td>
</tr>
<tr>
<td>Scott Barton</td>
</tr>
<tr>
<td>David Bass</td>
</tr>
<tr>
<td>Michael Bay</td>
</tr>
<tr>
<td>Sherry Been</td>
</tr>
<tr>
<td>Susan Benson</td>
</tr>
<tr>
<td>Glee Bertram</td>
</tr>
<tr>
<td>Ashwin Bhandiwad</td>
</tr>
<tr>
<td>Kanika Bhargava</td>
</tr>
<tr>
<td>Jim Bidlack</td>
</tr>
<tr>
<td>Mohamed Bingar</td>
</tr>
<tr>
<td>Laura Bolf-Beliveau</td>
</tr>
<tr>
<td>Christina Bourne</td>
</tr>
<tr>
<td>Phil Bourne</td>
</tr>
<tr>
<td>Larissa Boyd</td>
</tr>
<tr>
<td>Christina Branham</td>
</tr>
<tr>
<td>Deborah Brown</td>
</tr>
<tr>
<td>Michelle Haynie</td>
</tr>
<tr>
<td>Caleb Lack</td>
</tr>
<tr>
<td>Sean Laverty</td>
</tr>
<tr>
<td>Lalit Manral</td>
</tr>
<tr>
<td>Teresa Pac</td>
</tr>
<tr>
<td>Melissa Powers</td>
</tr>
<tr>
<td>Jessica Sheetz-Ngyuen</td>
</tr>
<tr>
<td>Nicole Warehime</td>
</tr>
<tr>
<td>Gang Xu</td>
</tr>
<tr>
<td>Steven Dunn</td>
</tr>
<tr>
<td>Mike Dunn</td>
</tr>
<tr>
<td>Jamie Dunnington</td>
</tr>
<tr>
<td>Shawna Ellis</td>
</tr>
<tr>
<td>Cheryl Evans</td>
</tr>
<tr>
<td>Darla Fent-Kelly</td>
</tr>
<tr>
<td>Allyson Fenwick</td>
</tr>
<tr>
<td>Dean Findley</td>
</tr>
<tr>
<td>Kevin Fink</td>
</tr>
<tr>
<td>David Forbat</td>
</tr>
<tr>
<td>Elizabeth Friar</td>
</tr>
<tr>
<td>Jicheng Fu</td>
</tr>
<tr>
<td>Delana Gabbard</td>
</tr>
<tr>
<td>Sanjeeva Gamagedara</td>
</tr>
<tr>
<td>Loren Gatch</td>
</tr>
<tr>
<td>Nora Gayzur</td>
</tr>
<tr>
<td>John Geiger</td>
</tr>
<tr>
<td>April Golliver-Mohiuddin</td>
</tr>
<tr>
<td>Marc Goulding</td>
</tr>
<tr>
<td>Michael Gourley</td>
</tr>
<tr>
<td>Gordon Gray</td>
</tr>
<tr>
<td>Lanita Harris</td>
</tr>
<tr>
<td>Tierney Harvey</td>
</tr>
<tr>
<td>Franklin Hays</td>
</tr>
<tr>
<td>Susmita Hazra</td>
</tr>
<tr>
<td>Jennifer Heck</td>
</tr>
<tr>
<td>Tara Hembrough</td>
</tr>
<tr>
<td>Michelle Hepner</td>
</tr>
<tr>
<td>Jacque Hocking</td>
</tr>
<tr>
<td>Narges Abdali</td>
</tr>
<tr>
<td>KJ Abraham</td>
</tr>
<tr>
<td>Alaeddin Abuabed</td>
</tr>
<tr>
<td>Gholam Ahmadiifar</td>
</tr>
<tr>
<td>Abdallah Ait Moussa</td>
</tr>
<tr>
<td>Elizabeth Allan</td>
</tr>
<tr>
<td>Nesreen Alsobu</td>
</tr>
<tr>
<td>Tonnia L. Anderson</td>
</tr>
<tr>
<td>Kristi Archuleta</td>
</tr>
<tr>
<td>Dorie Astle</td>
</tr>
<tr>
<td>LaDonna Atkins</td>
</tr>
<tr>
<td>Brittany Bannish</td>
</tr>
<tr>
<td>Amy Barnett</td>
</tr>
<tr>
<td>Scott Barton</td>
</tr>
<tr>
<td>David Bass</td>
</tr>
<tr>
<td>Michael Bay</td>
</tr>
<tr>
<td>Sherry Been</td>
</tr>
<tr>
<td>Susan Benson</td>
</tr>
<tr>
<td>Glee Bertram</td>
</tr>
<tr>
<td>Ashwin Bhandiwad</td>
</tr>
<tr>
<td>Kanika Bhargava</td>
</tr>
<tr>
<td>Jim Bidlack</td>
</tr>
<tr>
<td>Mohamed Bingar</td>
</tr>
<tr>
<td>Laura Bolf-Beliveau</td>
</tr>
<tr>
<td>Christina Bourne</td>
</tr>
<tr>
<td>Phil Bourne</td>
</tr>
<tr>
<td>Larissa Boyd</td>
</tr>
<tr>
<td>Christina Branham</td>
</tr>
<tr>
<td>Deborah Brown</td>
</tr>
</tbody>
</table>
Strengthening Oklahoma’s Scientific Workforce

OKINBRE.OUHSC.EDU

Student and Faculty Research Programs
- Summer Undergraduate Research Program
- Faculty research, equipment and travel grants
- Collaboration opportunities
- K-12 student and teacher training
- Grant writing and curriculum development

The Oklahoma IDeA Network of Biomedical Research Excellence (OK-INBRE) is a grant awarded by the National Institutes of Health to the OU Health Sciences Center through the Institutional Development Award (IDeA) program. OK-INBRE consists of a network of institutions statewide, including research-intensive institutions, primarily undergraduate institutions and community colleges. The goals of the program are to provide support for student and faculty research, institutional infrastructure that will promote research activities, and K-12 student and teacher outreach to provide skills and teaching methods in the sciences.

Max Chambers Library
Here to help!

Dynamic Resources
Supportive Surroundings
Research Consultations
Classroom Instruction

Strengthening transformative learning across campus!

library.uco.edu
Balancing on a skybridge 80 feet in the air, or guiding a rubber raft down a whitewater course in the heart of the city. Whichever way you look at it, you and your friends are about to discover that around here, things aren’t just new. They’re OKC new.
ABOUT UCO
The University of Central Oklahoma is dedicated to developing in students the confidence to succeed through transformative learning experiences. Central prepares future leaders in an opportunity-rich environment, with access to more than 200 student organizations and the internship, employment, entertainment and cultural offerings of the rapidly growing Oklahoma City metropolitan area.

Founded in 1890, the University of Central Oklahoma connects its 16,000 students to 115 undergraduate areas of study and 74 graduate majors from its main campus in Edmond and facilities throughout the metro area. The university’s six academic colleges and a nationally-renowned Forensic Science Institute serve more than 14,300 undergraduate students and 1,600 graduate students. Central is recognized for its dedication to veterans and their families and for its continuous efforts to promote responsible sustainability practices on its campus and within the surrounding community.

The Oklahoma City area is a modern metropolis with a historic Western past and a rich cultural history. The 2018 NCUR logo, which utilizes the University of Central Oklahoma’s official colors – bronze and blue, features Oklahoma’s state bird, the Scissor-tailed Flycatcher, a state symbol for many decades. The incorporation of the downtown Oklahoma City skyline represents the city’s modern evolution and continuous development.

INFORMATION ASSISTANCE
Information tents and tables are located at several locations throughout campus during the conference. Tables will be in all conference buildings. Tents can be found at the following locations:
- Broncho Lake
- Center for Transformative Learning
- College of Fine Arts and Design
- College of Business
- Old North
- Hamilton Field House
- Wellness Center/University Commons Clubhouse

EMERGENCY NOTIFICATIONS
Text NCUR2018 to 67283 to receive UCO emergency alerts on your phone during your visit to the UCO campus. Notifications will not extend past NCUR 2018.

FLIP FLOP STOPS
Sometimes your conference-ready shoes aren’t ready for cross-campus travel. Select tents will also offer Flip Flop Stops, providing a complimentary pair of flip flops to give your feet a break as you make your way between sessions.

GENERAL INFORMATION

NEED ADDITIONAL HELP? NCUR VOLUNTEERS ARE READY
The vast number of volunteers from across UCO, as well as our other Oklahoma institutions of higher education, are helping to bring you the best NCUR experience possible. NCUR 2018 volunteers, wearing light blue T-shirts, are located throughout the campus to help you with any questions you may have. You may also visit the volunteer hub, located in the Nigh University Center, to receive additional information.

NCUR 2018 T-SHIRTS
Remember your NCUR 2018 experience with a T-shirt featuring the unique conference design. Pick up T-shirts purchased during the online registration process at the conference registration site in the Nigh University Center. T-shirts can also be purchased on-site from the same location.

WIRELESS NETWORK ACCESS
UCO provides wireless internet access in all buildings on campus. To connect to the NCUR Wi-Fi network, select the NCUR network on your device and enter the password below.

- Wireless SSID: NCUR
- Password: ncur2018
  If requested by your device, select the Security Protocol: WPA2 or WPA2-PSK

USAGE GUIDELINES
- Use a 5GHz wireless device for the best performance.
- Large meeting areas may experience slower speeds during peak times.
- Do not utilize personal hot spots or Wi-Fi tethering as these degrade the wireless experience for all attendees.
- This is a public internet connection and the use of a personal firewall is suggested.
- UCO students, faculty and staff should continue to use the UCO or UCO_SECURE Wi-Fi networks.

ACCEPTABLE USE AND MISUSE
The NCUR wireless network should not be used inappropriately; in particular you should not use the network to:
- Send, receive or make available any material that might be considered offensive, obscene or indecent;
- Send, receive or make available any material that might infringe copyright, e.g. MP3 or other audio and video formats;
- Run peer-to-peer (P2P) file sharing software;
- Intercept or attempt to intercept other wireless transmissions for the purposes of eavesdropping;
- Access or run utilities or services which might negatively impact on the overall performance of the network or deny access to the network, e.g. RF jamming, Denial of Service (DoS);
- Harass, cause annoyance, nuisance or inconvenience to others;
GENERAL INFORMATION

• Access or attempt to access systems or resources to which you are not authorized;
• Provide services which may interfere with normal network operation;
• Provide access to others, e.g. allowing a third party to use your credentials to access the network.

Misuse of the NCUR wireless network will be taken extremely seriously. Such misuse may lead to immediate permanent disconnection of any unapproved wireless networking equipment. Deliberate or repeated breaches of this policy will result in, at minimum, ejection from NCUR events and possibly legal action pursuant to state and/or federal law.

Contact the UCO Service Desk at 405-974-2255 if you have any problems connecting to the wireless network.

ATM AND BANKING SERVICES
The second floor of Nigh University Center is home to a MidFirst Bank campus banking center, open Monday through Friday, 7:30 a.m.-5:30 p.m. There also are six MidFirst Bank ATM locations throughout campus:
• Nigh University Center Food Court (accepts deposits)
• Nigh University Center – First Floor
• Max Chambers Library – East Entrance
• University Suites Sports Grill
• Hamilton Field House
• Buddy’s Cafeteria

COPY/SHIPPING SERVICES
R.K. Black Office is located on the 1st floor of the Nigh University Center, Suite 146. Store hours are from 8 a.m. to 5 p.m. Monday through Friday and 8 a.m. to 1 p.m. Saturday. Copy, large format poster printing and shipping services are available.

HOSPITAL AND MEDICAL SERVICES
For medical and mental health emergencies, on or off campus, call 911 immediately. University of Central Oklahoma Police will be contacted in the event of a medical emergency on campus. Provide as much information as possible about your location and the nature of the emergency.

Information for the closest urgent care facilities is below:

OU MEDICAL CENTER – EDMOND
1 S. Bryant Avenue, Edmond, OK 73034
405-341-6100
Hours: 24 hours/7 days a week
Distance from campus: 0.9 miles

ACCESS MEDICAL CARE CENTER – URGENT CARE
46 E. 15th St., Edmond, OK 73013
405-844-5210
Hours: 8 a.m.-8 p.m., 7 days a week
Distance from campus: 2 miles

FIRST MED URGENT CARE
121 N. Kelly Avenue, Edmond, OK 73003
405-844-1633
Hours: 8 a.m.-7:30 p.m., 7 days a week
Distance from campus: 2.3 miles

INTEGRIS HEALTH EDMOND
4801 Integris Parkway, Edmond, OK 73034
405-657-3000
Hours: 24 hours/7 days a week
Distance from campus: 3.9 miles

DINING SERVICES
All registrations, pre-paid or on-site, include breakfast and lunch with vegetarian options. Three dining locations are available on campus for NCUR attendees: The Grand Ballroom in the Nigh University Center, an outdoor venue by the Wellness Center and Buddy’s.

BREAKFAST
Complimentary continental breakfast is available at the Nigh University Center Grand Ballroom, and Buddy’s from 7 to 9 a.m. on Thursday, Friday and Saturday. Continental breakfast will also be available at the outdoor venue by the Wellness Center from 7 to 9 a.m. Friday.

LUNCH
A hot buffet lunch is available at the Grand Ballroom in the Nigh University Center and Buddy’s and a box lunch is available at the outdoor venue by the Wellness Center from 11:30 a.m. to 2 p.m. Thursday and Friday. On Saturday, a box lunch will be available at the Nigh University Center 2nd floor from 11 a.m. to 1 p.m.

SNACKS
An afternoon snack will be available on Thursday afternoon at Plunkett Park from 3 to 6 p.m.
You must show your NCUR badge/nametag for each breakfast and lunch.
OTHER DINING OPTIONS
The University of Central Oklahoma has several dining locations should you want something other than what is offered for the complimentary meals:
- Nigh University Center Food Court (2nd floor)
  - Chick-Fil-A Express
  - Flatire Burgers
  - Sushi with Gusto
  - Quiznos
  - 2 Mato
- Starbucks (Nigh University Center 2nd floor)
- Legends Restaurant (Nigh University Center 2nd floor)
- Market at the Nigh (Nigh University Center 2nd floor)
- Market at the Library (Chambers Library 1st floor)
- Market at the Quad (The Quad Resident Hall)

TRANSPORTATION AND PARKING
NCUR 2018 will provide complimentary shuttle service from all NCUR-designated hotels. If you are not staying at an NCUR-designated hotel, you may still ride the shuttle that picks up at the nearest conference hotel. Shuttle service will be provided according to the schedule below and will run approximately every 10-15 minutes.

Shuttle service is available during the following times:
WEDNESDAY, APRIL 4
Noon-7 p.m.

THURSDAY, APRIL 5
6:30-9:30 a.m.
3:30-6:30 p.m.

FRIDAY, APRIL 6
6:30-9:30 a.m.
3:30-6:30 p.m.

SATURDAY, APRIL 7
6:30 a.m.-1:30 p.m.

Shuttle service is allocated based on the estimated number of registrants staying in NCUR-designated hotel properties. Although specific pick-up and drop-off times cannot be provided, we urge attendees to ride the earliest shuttle possible to ensure a timely arrival on campus for the plenary sessions and/or presentation sessions. The shuttle routes are color-coded, and each of the buses will be marked with the route color.

HOTEL SHUTTLE ROUTES
GREEN ROUTE: North Edmond
Pick Up at Hilton Garden Inn Edmond & Edmond Conference Center
Serves:
- Hilton Garden Inn Edmond & Edmond Conference Center

RED ROUTE: Edmond
Pick Up on Meline Drive Circle
Serves:
- Fairfield Inn & Suites by Marriott Edmond
- Hampton Inn Oklahoma City—Edmond
- Home2 Suites by Hilton Edmond
- La Quinta Inn & Suites Edmond
- Holiday Inn Express & Suites Edmond

BLUE ROUTE: Quail Springs
Pick Up at SpringHill Suites by Marriott Oklahoma City Quail Springs
Serves:
- Hilton Garden Inn Oklahoma City North Quail Springs
- Holiday Inn Oklahoma City North—Quail Springs
- La Quinta Inn & Suites OKC North—Quail Springs
- Staybridge Suites Oklahoma City-Quail Springs
- Country Inn & Suites by Carlson, Oklahoma City—Quail Springs
- Courtyard by Marriott Oklahoma City North
- Residence Inn by Marriott Oklahoma City North—Quail Springs
- Sleep Inn & Suites

YELLOW ROUTE: Northwest Expressway
Pick Up at Wyndham Oklahoma City
Serves:
- Wyndham Oklahoma City
- Hampton Inn Oklahoma City—Northwest
- Hilton Garden Inn Oklahoma City Midtown
- Residence Inn by Marriott Oklahoma City Northwest
- Hyatt Place Oklahoma City—Northwest
PURPLE ROUTE: Downtown/Bricktown
Picks Up at Santa Fe Train Depot
Serves:
• Sheraton Oklahoma City Downtown Hotel
• SpringHill Suites by Marriott Oklahoma City Downtown—Bricktown
• The Skirvin Hilton Oklahoma City
• AC Hotel by Marriott Oklahoma City Bricktown
• Homewood Suites by Marriott Oklahoma City—Bricktown
• Hampton Inn & Suites Oklahoma City—Bricktown
• Hyatt Place Oklahoma City—Bricktown

METRO MUSIC FEST/EXCURSION/TOUR SHUTTLE SERVICE

METRO MUSIC FEST
Transportation is provided to the Metro Music Fest on Friday, April 6 from UCO to Downtown/Bricktown. Ride one of the buses on the PURPLE ROUTE to Downtown/Bricktown. Shuttles will depart from UCO between 3:30-6:30 p.m. To return to your hotel following the event, meet at the Santa Fe Train Depot/Scissortail Gifts. Buses will have color-coded signage and depart approximately every 30 minutes to hotels. The last bus leaves at 10 p.m.

SATURDAY EXCURSIONS/TOURS
Pick-up and drop-off for excursions is directly outside of the Nigh University Center. Volunteers will be available to direct attendees to appropriate buses. Individuals will be shuttled back to UCO following the excursions and responsible for their own transportation back to their hotel. All shuttles will leave promptly at 12:30 p.m.

ADDITIONAL TOURS
Excursion tickets are available at registration. For supplementary tours or excursions during your time in Edmond/Oklahoma City, visit www.okctours.com.

PARKING
Parking will be limited so please use the shuttle service provided to and from the NCUR hotels. If you are not staying at a hotel with a shuttle, please review the following parking options:
• CARS
Attendees who are driving cars to campus should park in Lot 6, off of Bauman Avenue on the far eastern side of the campus. A map can be found on the NCUR website.
• CHARTER BUS PARKING
Parking lots 1 and 2 in the far northeast section of campus, east of Wantland Stadium, off of Chowning Avenue are available for charter bus and oversize vehicle parking. A map can be found on the NCUR website or on the back of this program.

LACTATION ROOMS
Designated lactation rooms are in the following locations:
• Nigh University Center, Room 305i (Monday-Friday, 8 a.m.-5 p.m.)
• Nigh University Center, Room 302 (Monday-Friday, 6:30 a.m.-9 p.m.)
• Lillard Administration, Room 206 (Monday-Friday, 8 a.m.-5 p.m.)
• Wellness Center lobby (Monday-Thursday, 5 a.m.-midnight; Friday, 5 a.m.-8 p.m.; Saturday, 8 a.m.-6 p.m.; and Sunday, 1-8 p.m.)

FACULTY/ADMINISTRATOR LOUNGE
Faculty, staff, administrators and exhibitors are invited to enjoy complimentary refreshments in the MidFirst Bank Conference Room and Territorial Lounge, 3rd floor, Old North building from 8 a.m. to 5 p.m. Thursday and Friday.

STUDENT LOUNGE
Students are invited to meet with the NCUR Student Ambassadors on the 1st floor of the Chambers Library from 11 a.m. to 5 p.m. Thursday and 8 a.m. to 5 p.m. Friday. Come by so you can:
• Learn more about Edmond, the UCO campus and NCUR;
• Practice your presentation in one of eight reserved rooms;
• Meet new people; and
• Hang out and have a cup of coffee or tea.
An investment in knowledge pays the best dividends.
– Benjamin Franklin

Tall Oak Midstream is proud to support the National Conference on Undergraduate Research.
BARNES & NOBLE
UNIVERSITY OF CENTRAL OKLAHOMA

PROUD SPONSOR OF NCUR

AVAILABLE FOR PURCHASE
AT THE BOOKSTORE

BECOMING KAREEM
Kareem Abdul Jabbar

MISSION TO SPACE
John Herrington

108 North University Drive, Edmond, OK 73034 • (405) 974-2736

University of Kentucky
Information Science

GRADUATE PROGRAMS
and CERTIFICATES

Master of Science in
Information Communication Technology
or
Library and Information Science (online)
and
Instructional Communication Certificate

Apply by July 1 for Fall 2018 admission.

infosci.uky.edu • @ukinfosci

COLLEGE OF GRADUATE STUDIES
UNIVERSITY OF CENTRAL OKLAHOMA

RESEARCH BIG

Congratulations to the University of Central Oklahoma for hosting the 2018 National Conference on Undergraduate Research.

FIND OUT WHAT A TIER ONE RESEARCH UNIVERSITY CAN DO FOR YOU

FIND OUT WHAT A TIER ONE RESEARCH UNIVERSITY CAN DO FOR YOU

Marian University
Indianapolis
College of Osteopathic Medicine

The Marian University College of Osteopathic Medicine (MU-COM) is proud to sponsor the 2018 National Conference on Undergraduate Research.

marian.edu/medicalschool

Marian University is sponsored by the Sisters of St. Francis, Oldenburg, Indiana.

100 North University Drive, Edmond, OK 73034 • (405) 974-2736

100 North University Drive, Edmond, OK 73034 • (405) 974-2736

BECOMING KAREEM
Kareem Abdul Jabbar

MISSION TO SPACE
John Herrington

108 North University Drive, Edmond, OK 73034 • (405) 974-2736

BARNES & NOBLE
UNIVERSITY OF CENTRAL OKLAHOMA

PROUD SPONSOR OF NCUR

AVAILABLE FOR PURCHASE
AT THE BOOKSTORE

BECOMING KAREEM
Kareem Abdul Jabbar

MISSION TO SPACE
John Herrington

108 North University Drive, Edmond, OK 73034 • (405) 974-2736

University of Kentucky
Information Science

GRADUATE PROGRAMS
and CERTIFICATES

Master of Science in
Information Communication Technology
or
Library and Information Science (online)
and
Instructional Communication Certificate

Apply by July 1 for Fall 2018 admission.

infosci.uky.edu • @ukinfosci

COLLEGE OF GRADUATE STUDIES
UNIVERSITY OF CENTRAL OKLAHOMA

RESEARCH BIG

Congratulations to the University of Central Oklahoma for hosting the 2018 National Conference on Undergraduate Research.

FIND OUT WHAT A TIER ONE RESEARCH UNIVERSITY CAN DO FOR YOU

FIND OUT WHAT A TIER ONE RESEARCH UNIVERSITY CAN DO FOR YOU

Marian University
Indianapolis
College of Osteopathic Medicine

The Marian University College of Osteopathic Medicine (MU-COM) is proud to sponsor the 2018 National Conference on Undergraduate Research.

marian.edu/medicalschool

Marian University is sponsored by the Sisters of St. Francis, Oldenburg, Indiana.

108 North University Drive, Edmond, OK 73034 • (405) 974-2736

108 North University Drive, Edmond, OK 73034 • (405) 974-2736

BARNES & NOBLE
UNIVERSITY OF CENTRAL OKLAHOMA

PROUD SPONSOR OF NCUR

AVAILABLE FOR PURCHASE
AT THE BOOKSTORE

BECOMING KAREEM
Kareem Abdul Jabbar

MISSION TO SPACE
John Herrington

108 North University Drive, Edmond, OK 73034 • (405) 974-2736

University of Kentucky
Information Science

GRADUATE PROGRAMS
and CERTIFICATES

Master of Science in
Information Communication Technology
or
Library and Information Science (online)
and
Instructional Communication Certificate

Apply by July 1 for Fall 2018 admission.

infosci.uky.edu • @ukinfosci

COLLEGE OF GRADUATE STUDIES
UNIVERSITY OF CENTRAL OKLAHOMA

RESEARCH BIG

Congratulations to the University of Central Oklahoma for hosting the 2018 National Conference on Undergraduate Research.

FIND OUT WHAT A TIER ONE RESEARCH UNIVERSITY CAN DO FOR YOU

FIND OUT WHAT A TIER ONE RESEARCH UNIVERSITY CAN DO FOR YOU

Marian University
Indianapolis
College of Osteopathic Medicine

The Marian University College of Osteopathic Medicine (MU-COM) is proud to sponsor the 2018 National Conference on Undergraduate Research.

marian.edu/medicalschool

Marian University is sponsored by the Sisters of St. Francis, Oldenburg, Indiana.
Welcome to the first-ever NCUR Pre-Conference Workshops. Plan to explore the theme, “Connection to Place,” through attending concurrent sessions in one of five interdisciplinary tracks. You'll begin by attending the Welcome and Kick-off in the Nigh University Center (NUC) Ballrooms, and you'll conclude in the Mitchell Hall Theatre for a performance and giveaways with leaders and participants in the Interdisciplinary Arts Track. Enjoy your Pre-Conference Workshops experience!

9 a.m. Registration Opens in the Nigh University Center (NUC)

1 p.m. Pre-Conference Workshops Welcome & Kick-Off

Creating Common Ground through Undergraduate Research

NUC Ballrooms

1 p.m. Welcome – John Barthell, Ph.D., UCO Provost

1:05 p.m. Greetings – Don Betz, UCO President

1:10 p.m. Introductory Video - featuring and introducing UCO students affiliated with all five Pre-Conference Workshops Tracks

1:15 p.m. Opening Remarks

Moderator: Bryan Duke, Ph.D.

Panelists: UCO Students – Joseph Downs, Business Energy Sector Track; Mychealon Mullins, Early Childhood Education Track; Linda Pope, Interdisciplinary Arts Track; Haylee Smoot, Forensic Science Track; and Savannah Waters, American Indian Studies Track

Live Artist: Bunky Echo-Hawk

1:20 p.m. Dialogue of Common Ground – Panelists, Attendees and Artist

1:50 p.m. Artist Synthesis – Bunky Echo-Hawk

2 p.m. Closing Remarks and Track Instructions – David Macey, Ph.D.

Following the Welcome & Kick-Off, students will attend concurrent sessions in one of the five tracks for which they registered before gathering at 6:20 p.m. in Mitchell Hall Theatre for the Interdisciplinary Arts Showcase. Four slots of concurrent sessions across all tracks provide an opportunity for students to explore career information, engage with guest speakers and interact with like-minded others from across the country. See the program for a complete schedule of concurrent sessions for each track.

2:30 p.m. Track Concurrent Session One (see track schedule)

3:25 p.m. Track Concurrent Session Two (see track schedule)

4:20 p.m. Track Concurrent Session Three (see track schedule)

5:15 p.m. Track Concurrent Session Four (see track schedule)

6:20 p.m. Pre-Conference Workshops Interdisciplinary Arts Showcase

Mitchell Hall Theatre

Showcase Welcome & Giveaways – MC Amrit (AJ) Kaur Singh with UCO Royalty

6:25 p.m. Showcase Overview & the Creative Process – Tina Kambour

6:30 p.m. Showcase Performance and Q&A

6:50 p.m. Showcase Wrap-Up and Giveaways - MC Amrit (AJ) Kaur Singh with UCO Royalty
## Pre-Conference Workshops

### American Indian Studies Track

**Presented by the Chickasaw Nation**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Location</th>
<th>Presenter(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 – 2:10 p.m.</td>
<td>Pre-Conference Workshops Welcome &amp; Kick-Off “Creating Common Ground through Undergraduate Research”</td>
<td>NUC 320B</td>
<td>Michael Ceballos, Ph.D., Russ Tallchief, Jamie Clark</td>
</tr>
<tr>
<td>2:10 – 2:30 p.m.</td>
<td>Movement to Track Concurrent Sessions</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2:30 – 3:15 p.m.</td>
<td>Session Title: Biological Sciences</td>
<td>Location: NUC 320B</td>
<td>Presenter: Michael Ceballos, Ph.D.</td>
</tr>
<tr>
<td>3:15 – 3:25 p.m.</td>
<td>Break</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3:25 – 4:10 p.m.</td>
<td>Session Title: Fine &amp; Performing Arts</td>
<td>Location: NUC 320C</td>
<td>Presenter: Russ Tallchief</td>
</tr>
<tr>
<td>4:10 – 4:20 p.m.</td>
<td>Break</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4:20 – 5:05 p.m.</td>
<td>Session Title: Health &amp; Wellness</td>
<td>Location: NUC 320C</td>
<td>Presenter: Jamie Clark</td>
</tr>
<tr>
<td>5:05 – 5:15 p.m.</td>
<td>Break</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5:15 – 6 p.m.</td>
<td>Session Title: American Indian Studies Track Synthesis</td>
<td>Location: NUC Ballroom C</td>
<td>Presenters: Michael Ceballos, Ph.D., Russ Tallchief, Jamie Clark, Bunky Echo-Hawk</td>
</tr>
<tr>
<td>6 – 6:20 p.m.</td>
<td>Movement to Interdisciplinary Arts Showcase in Mitchell Hall Theatre</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6:20 – 7 p.m.</td>
<td>Pre-Conference Workshops Closure &amp; Send-Off “Interdisciplinary Arts Showcase”</td>
<td>Mitchell Hall Theatre</td>
<td><strong>Session Title: Fine &amp; Performing Arts</strong></td>
</tr>
</tbody>
</table>

### Presenters:

- **Michael Ceballos** (Odami) is an assistant professor of Biology at the University of Arkansas. Ceballos earned a Ph.D. in Integrative Microbiology and Biochemistry through an U.S. National Science Foundation IGERT program at the University of Montana. Using his prior experience in neurobiology and virology, he currently studies neurotropic dsDNA virus systems and emergent infectious disease dynamics, in humans and other vertebrates (e.g., fish and mice). Although his general interests include understanding the evolution of virulence (and attenuation) in host-pathogen systems and the role that viruses play in major evolutionary changes, Ceballos is also engaged in projects with practical application. As part of an applied science component of his research, he studies microbial systems (e.g., archaea and microalgae) to develop biotechnology to enhance liquid fuel production systems and for optimizing “sustainable” aquaponics systems. As part of the more biomedical sciences component of his research, Ceballos also studies herpesviruses (i.e., HHV-6, HHV-6-B, HHV-7, MHV6, MRV) in human cells and mouse models.

- **Russ Tallchief** (Osage) is the director of Student Engagement, Inclusion, and Multicultural Programs at Oklahoma City University. He is a citizen of the Muscogee Creek Nation and an enrolled member of the Yakama Nation. As an advocate and an educator, Echo-Hawk regularly speaks at conferences, conducts workshops, and teaches art and writing. He has performed live art presentations at several domestic and international venues. He initiates the performance by creating a dialogue with the audience in order to generate socially relevant and meaningful discussion. He guides the audience through conceptualizing a painting, which he creates on the spot for the host organization, while participants continue to contribute their ideas, opinions and personal testimony.

- **Jamie Clark** (Muscogee Creek) has taught health and kinesiology classes at UCO since 2014. Prior to teaching at UCO, Clark taught U.S. History from Civil War to Vietnam War at Choctaw High School in Choctaw, Oklahoma. Clark is currently pursuing a doctorate in Health and Human Performance from Oklahoma State University with an anticipated completion in 2018. Her experience as a sports coach brought her to the health and kinesiology fields, and she is passionate about researching and teaching athletes, coaches and parents about issues in sport. She is a citizen of the Muscogee Creek Nation and serves as Vice President of the Native American Faculty Staff Association at UCO.

- **Bunky Echo-Hawk** (Pawnee/Yakama) is a multi-talented artist whose work spans both media and lifestyle. A graduate of the Institute of American Indian Arts, he is a fine artist, graphic designer, photographer, writer and a nonprofit professional. Echo-Hawk is also a traditional singer and dancer of the Pawnee Nation and an enrolled member of the Yakama Nation. As an advocate and an educator, Echo-Hawk regularly speaks at conferences, conducts workshops, and teaches art and writing. He has performed live art presentations at several domestic and international venues. He initiates the performance by creating a dialogue with the audience in order to generate socially relevant and meaningful discussion. He guides the audience through conceptualizing a painting, which he creates on the spot for the host organization, while participants continue to contribute their ideas, opinions and personal testimony.

- **Russ Tallchief** (Osage) is the director of Student Engagement, Inclusion, and Multicultural Programs at Oklahoma City University. He is the author of “Jacobson and the Kiowa Five,” a play published for the Native American New Play Festival: A Celebration of Four Years. Most recently, he authored a new play titled “The Chainsaw Artist,” which premiered in August in Norman, Oklahoma. Tallchief served as the Art Galleries Editor for Native Peoples Magazine from 2000 – 15. He has also curated exhibitions of Native art throughout the U.S. and in Paris, France. Tallchief is a Taildancer in the In’lonshka Osage ceremonial dances and the nephew of renowned Osage ballerinas Maria and Marjorie Tallchief.
**PRE-CONFERENCE WORKSHOPS**

**BUSINESS ENERGY SECTOR TRACK**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Presenter</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 – 2:10 p.m.</td>
<td>Pre-Conference Workshops Welcome &amp; Kick-Off</td>
<td></td>
<td>NUC Ballroom B</td>
</tr>
<tr>
<td></td>
<td>“Creating Common Ground through Undergraduate Research”</td>
<td>Autumn Lashley</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2:10 – 2:30 p.m.</td>
<td>Movement to Track Concurrent Sessions</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2:30 – 3:15 p.m.</td>
<td>Session Title: Careers in Energy Sectors</td>
<td>Session Title: Covering the World of Energy</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Presenter: Autumn Lashley</td>
<td>Presenter: Sarah Terry-Cobo</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Location: NUC Ballroom B</td>
<td>Location: NUC 421</td>
<td></td>
</tr>
<tr>
<td>3:15 – 3:25 p.m.</td>
<td>Break</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3:25 – 4:10 p.m.</td>
<td>Session Title: Government Regulation of Energy Industry</td>
<td>Session Title: The Federal Reserve Energy Survey</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Presenter: Kent Meyers</td>
<td>Presenter: Megan Williams</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Location: NUC Ballroom B</td>
<td>Location: NUC 421</td>
<td></td>
</tr>
<tr>
<td>4:10 – 4:20 p.m.</td>
<td>Break</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4:20 – 5:05 p.m.</td>
<td>Session Title: Oil &amp; Gas, Seismic Activity, and Governmental Relations</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Presenter: Secretary Michael Teague</td>
<td>Oklahoma Secretary of Energy &amp; Environment</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Location: NUC Ballroom B</td>
<td>Location: NUC 421</td>
<td></td>
</tr>
<tr>
<td>5:05 – 5:15 p.m.</td>
<td>Break</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5:15 – 6 p.m.</td>
<td>Session Title: World Energy Outlook</td>
<td>Session Title: Future Prospects and Past Advances for Renewable Energy</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Presenter: Mark Stansberry</td>
<td>Presenter: Jim Roth</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Location: NUC Ballroom B</td>
<td>Location: NUC 421</td>
<td></td>
</tr>
<tr>
<td>6 – 6:20 p.m.</td>
<td>Movement to Interdisciplinary Arts Showcase in Mitchell Hall Theatre</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6:20 – 7 p.m.</td>
<td>Pre-Conference Workshops Closure &amp; Send-Off</td>
<td>“Interdisciplinary Arts Showcase”</td>
<td>Mitchell Hall Theatre</td>
</tr>
</tbody>
</table>

**PRESENTERS:**

AUTUMN LASHLEY has been working for Chesapeake Energy for nearly 10 years. She is responsible for identifying and recruiting new talent for the company, conducting new-hire orientations for new employees, and for planning and executing recruiting efforts across multiple disciplines and school locations. Lashley is a graduate of the University of Central Oklahoma.

KENT MEYERS is a director at Crowe & Dunlevy, a leading law firm in Oklahoma City. He graduated with law degrees from University of Oklahoma and Harvard University. Meyers has extensive experience in antitrust and complex litigations, and his law practice spans more than five decades. Meyers has also taught in the College of Law at the University of Oklahoma. He has co-hosted the television show “The Verdict” with Oklahoma City Mayor Mick Cornett since April 1, 2001. Meyers is one of two co-founders of Oklahoma Lawyers for Children, the founder of Crowe & Dunlevy International Professorship Program and a fellow of the American College of Trial Lawyers.

JIM ROTH is a member of the Phillip Murrah law firm’s Energy and Natural Resources Practice Group and Chair of the Clean Energy Practice Group. He represents individuals and both publicly-owned and private companies in a range of business, energy and environmental issues, as well as a variety of public policy and regulatory matters. He served as an Oklahoma Corporation Commissioner from 2007 until January 2009 when he joined Phillips Murrah. He served as a County Commissioner for Oklahoma County from 2002 to 2006. Prior to serving as County Commissioner, he served eight years in local government as a staff attorney and chief deputy for Oklahoma County.

MARK A. STANSBERRY is a corporate leader with extensive experience in the energy industry as well as in domestic and international business development. He has chaired and/or served on private, public and not-for-profit boards of companies/entities ranging from a few employees to several thousand. Stansberry has served as Chairman/CEO of the GTD Group and CEO/President of the Oklahoma Royalty Company. He is an award-winning author, film producer, columnist and radio talk show host. He currently serves as a Regent for the Regional University System of Oklahoma, UCO’s governing board.

SECRETARY MICHAEL TEAGUE serves as Oklahoma’s first Secretary of Energy and Environment. Appointed in 2013, he is responsible for coordinating over 30 state agencies, boards, compacts and commissions in advancing policies that encourage energy production and environmental stewardship throughout the state. Prior to his appointment, Teague served in the U.S. Army for nearly 30 years before retiring with the rank of Colonel. As the commander of the Tulsa District of the U.S. Army Corps of Engineers, he managed a civil works program encompassing all of Oklahoma, a large portion of southern Kansas and the panhandle of northern Texas. Teague received a bachelor’s degree in Civil Engineering from Norwich University. He also received master’s degrees in Operations Analysis from the Naval Postgraduate School and in National Security and Strategic Studies from the Naval War College.

SARAH TERRY-COBO is a senior reporter and digital strategist for The Journal Record, a daily business newspaper based in Oklahoma City, where she has worked since 2012. She covers energy, healthcare, aerospace and manufacturing industries. She served as an adjunct instructor at the Gaylord College of Journalism and Mass Communication at the University of Oklahoma. Previously she has worked for NPR-affiliate KQED Radio, the Center for Investigative Reporting, GreenBiz.com, Forbes.com and The Oakland Tribune. Terry-Cobo has a Bachelor of Arts in Environmental Policy from the University of Tulsa, a Master of Journalism in Journalism and a Master of Arts in Latin American Studies from the University of California, Berkeley.

MEGAN WILLIAMS joined the Federal Reserve Bank in 2000 as an analyst in the Retail Payments Support department. In March 2006, Megan assumed her current position as an associate economist in the Regional Affairs department, where she is responsible for current monetary policy research, district economic surveys and a variety of economic research projects. She also serves as secretary for the Oklahoma City Branch Board of Directors and is a former board chair of the Oklahoma Council on Economic Education. Megan holds a B.S. degree in Finance from Oklahoma State University and a MBA degree from the University of Oklahoma.
## Pre-Conference Workshops

### Early Childhood Education Through an International Lens Track

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Presenter</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:30 – 2:10 p.m.</td>
<td>Pre-Conference Workshops Welcome &amp; Kick-Off</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2:10 – 2:30 p.m.</td>
<td>Movement to Track Concurrent Sessions</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2:30 – 3:15 p.m.</td>
<td>Session Title: Researching Play from a Playwork Perspective</td>
<td>Pete King, Ph.D.</td>
<td>NUC Ballroom A</td>
</tr>
<tr>
<td>3:15 – 3:55 p.m.</td>
<td>Break</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3:55 – 4:10 p.m.</td>
<td>Session Title: Access to Play with Children in Crisis</td>
<td>LaDonna Atkins, Ed.D.</td>
<td>NUC 300</td>
</tr>
<tr>
<td>4:10 – 4:50 p.m.</td>
<td>Break</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4:50 – 5:05 p.m.</td>
<td>Session Title: Play in Early Childhood Education: What, Where, How and Why?</td>
<td>Ji Hyun Oh, Ph.D.</td>
<td>NUC 300</td>
</tr>
<tr>
<td>5:05 – 5:15 p.m.</td>
<td>Break</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5:15 – 6 p.m.</td>
<td>Session Title: Advocating for Play</td>
<td>Pete King, LaDonna Atkins, and Janette Wetsel</td>
<td>NUC Ballroom A</td>
</tr>
<tr>
<td>6 – 6:20 p.m.</td>
<td>Movement to Interdisciplinary Arts Showcase</td>
<td></td>
<td>Mitchell Hall Theatre</td>
</tr>
<tr>
<td>6:20 – 7 p.m.</td>
<td>Pre-Conference Workshops Closure &amp; Send-Off</td>
<td></td>
<td>“Interdisciplinary Arts Showcase” Mitchell Hall Theatre</td>
</tr>
</tbody>
</table>

### Pre-Conference Workshops Closure & Send-Off

“Interdisciplinary Arts Showcase” Mitchell Hall Theatre

---

### Presenters:

**LaDonna Atkins, Ed.D.** is a professor in the Child Development program at the University of Central Oklahoma. Atkins serves as the administrator for the campus Child Study Center. She serves on many national, state and community boards, including the advisory board for the Oklahoma Infant Mental Health Association, Oklahoma March of Dimes, OKC Klife and Oklahoma Head Start Collaboration. She currently serves as the International Play Association/United States president and recently was appointed to the International Play Association World Council. Her research interests include school recess, play and infant/child development.

**Pete King** earned a Ph.D. in Childhood Studies and currently teaches courses on children’s rights, perspectives on play and therapeutic work with children. He also teaches research methods in both undergraduate and postgraduate courses. King has spent most of his professional practice in children’s recreational time, including the use of school space outside of the school curriculum. He researches and teaches in play theory and practice, researching childhood and perspectives on play. He is interested in re-establishing early years practitioners as play professionals and the factors influencing children’s perceptions of choice within their free play activity.

**Patti Loughlin** is a professor of History and chair of the Department of History and Geography at the University of Central Oklahoma. She specializes in modern U.S. history, women’s history, American Indian history and the history of the American West. Her book, “Hidden Treasures of the American West: Muriel H. Wright, Angie Debo and Alice Marriott” (University of New Mexico Press, 2005), received the Outstanding Book on Oklahoma History award from the Oklahoma Historical Society and the Director’s Award and Finalist in Nonfiction from the Oklahoma Center for the Book in 2006. She has authored several other books, her latest being one for children, “Angie Debo, Daughter of the Prairie” (Oklahoma Hall of Fame, 2017).

**Judith McCconnell-Farmer** is a professor of Education at Washburn University in Kansas. She is president of OMEP-USA (Organisation Mondiale pour L’Education Prescolaire), World Organization for Early Childhood Education and Care, United States, and has facilitated 45 sessions of the International Round Table Symposium at Oxford University in Oxford, England during the past 14 years. She has studied young children in both Belize and Jamaica, and has extended experiences in global settings.

**Ji Hyun Oh** is an assistant professor of Inclusive Early Childhood Education at the University of Colorado at Colorado Springs. She received her master’s degree in early childhood education from the University of Central Oklahoma and Ph.D. in special education from the University of Florida. She previously worked as a kindergarten and preschool teacher in South Korea and Oklahoma. Oh has taught multiple undergraduate courses including “Learning through Play” and also has worked as a university field supervisor. Her research interests include children’s play, play environment and early childhood teacher education.

**Jennifer Airington Richard** graduated from Trinity University in 1997 with a B.A. in English and Communications. She received her Montessori Certification in 2005 and a master’s in Early Childhood Education in 2010 from the University of Central Oklahoma. Richard is currently in her fourth year of study towards a Ph.D. in Childhood Studies at Swansea University. She is a fellow with Oklahoma A+ Schools, and she has worked as an early childhood educator for 10 years. Jennifer and her husband have two teenage children.

**Susan Tabor** currently serves as an administrator in a community college setting. She has 30 years of experience in higher education, public school settings, and early care and education programs. She holds a Ph.D. in Instructional Leadership and Academic Curriculum with an emphasis in early childhood education. Her professional interests focus on improving the quality of life of children and their families.

**Janette C. Wetsel** earned a Ph.D. and is a professor of Early Childhood Education at the University of Central Oklahoma. Wetsel teaches classes in advocacy and public policy, diversity and assessment of young children. Her research interests include cross-cultural comparisons of early childhood settings and the Americanization of early childhood education in other cultures through the adoption of the phrase, “Developmentally Appropriate Practice.” While serving as the public policy chair of a state early childhood organization for several years, she led groups of early childhood professionals to the NAEYC Forum on Public Policy in Washington, D.C.
<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Presenter</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 – 2:10 p.m.</td>
<td>Pre-Conference Workshops Welcome &amp; Kick-Off</td>
<td>Mark McCoy, Ed.D.</td>
<td>FSI 123</td>
</tr>
<tr>
<td>2:10 – 2:30 p.m.</td>
<td>Movement to Track Concurrent Sessions in the Forensic Science Institute (FSI) Building</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2:30 – 3:15 p.m.</td>
<td>Pre-Conference Workshops Forensic Science Track</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3:15 – 3:25 p.m.</td>
<td>Break</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3:25 – 4:10 p.m.</td>
<td>Forensic Science Panel Discussion</td>
<td>Mia White, Chelsea Fort, Tim Dwyer, and Keisha Jones</td>
<td>FSI 113</td>
</tr>
<tr>
<td>4:20 – 5:05 p.m.</td>
<td>Pre-Conference Workshops Interdisciplinary Arts Showcase</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5:05 – 5:15 p.m.</td>
<td>Break</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5:15 – 6:00 p.m.</td>
<td>Pre-Conference Workshops Closure &amp; Send-Off</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**FORENSIC SCIENCE TRACK**

- **Pre-Conference Workshops Welcome & Kick-Off**
- **Movement to Track Concurrent Sessions in the Forensic Science Institute (FSI) Building**

**PRESENTERS:**

- JAMES CREECY, PH.D. has a dual appointment to the Forensic Science Institute and Department of Biology at the University of Central Oklahoma. Prior to his employment with UCO, Creecy was a forensic scientist and DNA analyst for the Oklahoma City Police Department Crime Laboratory. Dr. Creecy’s service and experience contributes expertise in the areas of microscopic and macroscopic examination of biological material, nuclear and mitochondrial DNA analysis, forensic application of population statistics, operational knowledge of the CODIS database, and professional continuing education of law enforcement and medical personnel.

- TIMOTHY DWYER earned his bachelor’s degree in Mortuary Science from the University of Central Oklahoma in 2002. He then obtained a job as a Medicolegal Death Investigator for the Office of the Chief Medical Examiner, where he is still currently employed in the field. From 2009-16 he served as the chief investigator. He is also on the Board of Directors for the American Board of Medicolegal Death Investigators, where he is currently serving as the vice president. Currently, he is a graduate student in the master’s program at the Forensic Science Institute.

- CHELSEA FORT earned her Bachelor of Science degree in Biology from Southwestern College in 2012. She then obtained a master’s degree in Forensic Science from the University of Central Oklahoma in 2014, emphasizing in forensic chemistry. She has worked for the Office of the Chief Medical Examiner of Oklahoma for over four years as a forensic chemist in the toxicology laboratory. Chelsea has published numerous papers in the fields of forensic chemistry and toxicology and is a member of the Southwestern Association of Toxicologists.

- R. CRAIG GRAVEL is a retired lieutenant with the Oklahoma City Police Department. With 25 years of service at the department, he was assigned to the Investigations Bureau for 21 years serving as a detective in the larceny, missing persons, robbery and homicide units. He was promoted to the rank of lieutenant in 1993 and was a supervisor in the Crime Scene Unit for more than 10 years. He has been an adjunct professor at the University of Central Oklahoma for the past seven years instructing “Basic and Advanced Bloodstain Pattern Analysis” in the Master of Forensic Science program. He has also taught at the University of Oklahoma, Oklahoma State University, Oklahoma City Police Homicide School, the Police Citizens Academy, Public Agency Training Council and TBI, LLC.

- KEISHA JONES has been a crime scene processing adjunct instructor at the UCO Forensic Science Institute since 2015. Prior to that, she was employed with the Midwest City Police Department for 4½ years, first as a technical investigator, and then as the Crime Lab Director. During this time, she helped develop the technical investigator and crime scene technician training programs and received certification as a crime scene investigator through the International Organization for Identification. Keisha’s education includes a B.S. degree in chemistry from Oklahoma State University and an M.S. degree in forensic science from UCO.

- MARK MCCOY, Ed.D. joined the faculty at UCO following retirement from the Oklahoma State Bureau of Investigation (OSBI). McCoy specialized in computer crimes and the forensic examination of digital evidence and was the first supervisor of the OSBI Computer Crime Unit. He has been Certified Forensic Computer Examiner (CFCE), since 1996 and has testified as an expert witness in state and federal court. McCoy serves as the Forensic Science Institute’s Digital Evidence Program Administrator; his research interests include digital forensics, computer crime, the application of technology in law enforcement and law enforcement education and training.

- CAITLIN PORTERFIELD received a B.S. with honors in Biochemistry from the University of Oklahoma and an M.S. in Forensic Science with an emphasis in DNA analysis from the University of Central Oklahoma. Her thesis research focused on the genetic, microscopic and chemical evaluation of processed human hair extensions for their probative value in forensic casework. Currently, Porterfield is a Forensic Science instructor at UCO. Her courses focus on the forensic analysis of impression evidence to include firearms and toolmarks, fingerprints and tire tread/shoe print impressions.

- MIA WHITE obtained her Bachelor of Arts in psychology from Oklahoma State University and her Master of Science in forensic science from the UCO Forensic Science Institute. She completed her graduate thesis research examining the dormant periods in serial homicide cases. White is currently employed as a crime scene investigator with the Edmond Police Department.
## PRE-CONFERENCE WORKSHOPS

### INTERDISCIPLINARY ARTS TRACK

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Presenter(s)</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 – 2:10 p.m.</td>
<td>Pre-Conference Workshops Welcome &amp; Kick-Off</td>
<td>Iliana Rocha, Ph.D.</td>
<td>MH 218</td>
</tr>
<tr>
<td>2:10 – 2:30 p.m.</td>
<td>Film Sesh: Creative Writing and Publishing: Iliana Rocha</td>
<td>Iliana Rocha</td>
<td>MH 211</td>
</tr>
<tr>
<td>2:30 – 3:15 p.m.</td>
<td>Movement to Track Concurrent Sessions in the Mitchell Hall (MH) Building</td>
<td>Breck McGough, Jill Priest,</td>
<td>MH 211</td>
</tr>
<tr>
<td>3:15 – 3:25 p.m.</td>
<td>Break</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3:25 – 4:10 p.m.</td>
<td>Session Title: Introduction/Planning Session for Interdisciplinary Arts Track</td>
<td>Jonathan Edwards, Tina Kambour, Jill Priest, Iliana Rocha and David Webber</td>
<td>MH Performance Hall</td>
</tr>
<tr>
<td>4:10 – 4:20 p.m.</td>
<td>Break</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4:20 – 5:05 p.m.</td>
<td>Session Title: Creative Writing Presented: Iliana Rocha</td>
<td>Iliana Rocha</td>
<td>MH 211</td>
</tr>
<tr>
<td>5:05 – 5:15 p.m.</td>
<td>Break</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5:15 – 6 p.m.</td>
<td>Session Title: Culmination of Interdisciplinary Arts Track Presented:</td>
<td>Jonathan Edwards, Breck McGough, Jill Priest, Iliana Rocha and David Webber</td>
<td>MH Performance Hall</td>
</tr>
<tr>
<td>6 – 6:20 p.m.</td>
<td>Movement to Interdisciplinary Arts Showcase in Mitchell Hall Theatre</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6:20 – 7 p.m.</td>
<td>Session Title: Pre-Conference Workshops Closure &amp; Send-Off Presented:</td>
<td>Iliana Rocha</td>
<td>MH Performance Hall</td>
</tr>
</tbody>
</table>

## PRESENTERS:

**JONATHAN EDWARDS** is a graduate student in the UCO Master of Music program, studying Composition and Cello Performance programs. He has written, arranged and performed music for all types of genres, ensembles and productions around Oklahoma and the United States. He specializes in audio, lighting and video production technologies; data-driven instruments; environmental acoustics; and acoustic instrument and piano design and construction. He loves to push the boundaries of what is possible between the arts and sciences and find novel ways to collaborate between disciplines to spread the joys of knowledge, empathy and discovery.

**TINA KAMBOUR** is a faculty member in the Department of Dance at the University of Central Oklahoma. Her choreography, which has been commissioned for professional companies and universities, has been presented in Mexico, Canada and in the United States, including the Kennedy Center in Washington, D.C. She is a Certified Movement Analyst from the Laban/Bartenieff Institute of Movement Studies. From 1999-2008, she was a visiting faculty member at the New World School of the Arts in Miami, Florida. She has taught throughout the United States, Mexico, Northern Ireland and Guatemala.

**BRECK MCGOUGH**’s award-winning scores have premiered at national and international film festivals. He studied both humanities and music at the University of Central Oklahoma, where he began scoring films for his classmates and writing music for dance. He has received commissions from DanceVisions, RACE Dance Company and the Oklahoma Contemporary Dance Festival. He is currently a graduate music student at the University of Central Oklahoma, where he studies composition with Composer-in-Residence, Samuel Magrill, DMA, and ventures into the mysterious realm of electronic music with L. Keith White, Ph.D.

**JILL PRIEST** earned a Master of Fine Arts in Dance from Texas Woman’s University and serves as professor and assistant chair of the Department of Dance at the University of Central Oklahoma. Jill has worked as a passionate dance educator and choreographer for a wide variety of dance and theatre performances and events for the past 20+ years throughout Oklahoma and the region. Her work has been featured at the Performatica International Dance Festival, the American College Dance Association Conference and the Enid Symphony Orchestra Subscription Series among others.

**ILIANA ROCHA** earned her Ph.D. in English Literature and Creative Writing from Western Michigan University. Her work has been featured in the Best New Poets 2014 anthology, as well as The Nation, RHINO, Blackbird and West Branch. “Karankawa,” her debut collection, won the 2014 AWP Donald Hall Prize for Poetry and is available through the University of Pittsburgh Press. She is currently an assistant professor of Creative Writing at the University of Central Oklahoma and lives with her two chihuahuas, Nilla and Beans.

**DAVID WEBBER** is an assistant professor of New Media at the University of Central Oklahoma where he teaches video, sound, installation and interactive art. Originally from the Philadelphia area, Webber received a BFA from Tufts University in Medford, Massachusetts and School of the Museum of Fine Arts, in Boston. His MFA in Electronic Integrated Arts was received from New York State College of Art and Design at Alfred University in Alfred, New York. As an artist, Webber works primarily with time-based media and interactive installations. In his spare time, he makes analog synthesizers and electro-acoustic music.
Undergraduate researchers graduate college at higher rates*.

The UCO Alumni Association is proud to support NCUR, student research and future alumni.

KAREEM ABDUL-JABBAR

Kareem Abdul-Jabbar is the NBA’s all-time leading scorer and a six-time NBA champion. He is also one of a handful of influential and respected black men in America who has a national platform as a regular contributing columnist for The Washington Post and The Hollywood Reporter, where he shares his thoughts on some of the most socially relevant and politically controversial topics facing our nation today. After 50 years as an athlete, activist and New York Times bestselling author, he offers his perspectives as a nationally-recognized speaker who regularly appears on the lecture circuit. His new book, “Becoming Kareem” is an autobiographical account of his tumultuous spiritual and athletic journey from childhood through college and his first year in the NBA. It debuted November 2017.

His Emmy Award-winning HBO Sports documentary “Kareem: Minority of One” debuted as HBO’s most-watched and highest-rated sports documentary of all time. Currently, Abdul-Jabbar serves as the chairman of his Skyhook Foundation whose mission is to “Give Kids a Shot That Can’t be Blocked” by bringing educational STEM opportunities to underserved communities through innovative outdoor environmental learning. His most recent projects include an action mystery series, entitled “Mycroft Holmes” (Sherlock Holmes’s savvy older brother), which is being developed into a series of novels and comic books by Titan Publishing.

Before President Obama left office in 2016, he awarded Abdul-Jabbar the nation’s highest civilian honor, The Presidential Medal of Freedom.

Photo credit: Dan Winters

RAMU DAMODARAN

Ramu Damodaran is Deputy Director for Partnerships and Public Engagement in the United Nations Department of Public Information’s Outreach Division and is chief of the United Nations Academic Impact initiative, which aligns institutions of higher learning and research with the objectives of the United Nations and the states and peoples who constitute it. He is also the current secretary of the United Nations Committee on Information. His earlier posts with the organization have included the Departments of Peacekeeping and Special Political Questions, as well as the Executive Office of the Secretary-General.

Damodaran has been a member of the Indian Foreign Service, where he was promoted to the rank of Ambassador, and where he served as Executive Assistant to the Prime Minister of India as well as in the diplomatic missions in Moscow and to the United Nations, and in a range of national governmental ministries. He has been actively involved in mass media in India, including print, radio and television, and was a recipient of the Asia-Pacific Broadcasting Union award for the best radio documentary.

Before President Obama left office in 2016, he awarded Abdul-Jabbar the nation’s highest civilian honor, The Presidential Medal of Freedom.

Photo credit: Dan Winters
CLAUDIA SAN PEDRO

Claudia San Pedro serves as President for the Oklahoma City-based national headquarters of SONIC®, America’s Drive-In®. Her responsibilities include franchisee relations, supply chain, franchise sales and development, business planning and overseeing finance function. Most recently, San Pedro served the company as Executive Vice President and Chief Financial Officer.

San Pedro joined SONIC in 2006 as treasurer. She has also served as Vice President of Investor Relations since 2009. In that role, she directed financial planning, procurement and investment of funds for the organization and formulated investor relations strategy and oversaw communications with the investment community.

Prior to joining SONIC, San Pedro served as the Director for the Oklahoma Office of State Finance. Appointed by Governor Brad Henry in 2005, San Pedro was the first female and first Hispanic to serve as Director of State Finance (OSF) for Oklahoma. Before joining OSF and the Henry administration, San Pedro served as the Assistant Director of the Oklahoma State Senate fiscal staff and a staff budget analyst for the senate appropriations subcommittees on education, human services and general government.

San Pedro is currently a volunteer board member of the Foundation for Oklahoma City Public Schools and Downtown OKC. She holds an undergraduate degree from Smith College in Massachusetts and an MBA from the University of Oklahoma.

Born in Mexico City, San Pedro resides in Oklahoma City with her family.

COMMANDER JOHN HERRINGTON, PH.D.

Commander John Herrington, Ph.D. is an ambassador for the Chickasaw Nation and a former NASA astronaut who became the first Native American to walk in space during a shuttle Endeavour mission in 2002.

Herrington, a Navy veteran, joined NASA in 1996 assigned to both the shuttle and the International Space Station branches in support of guidance navigation and control systems. He was also assigned to the Flight Support Branch of the Astronaut Office where he served as a member of the Astronaut Support Team, responsible for in-shuttle launch preparations. For his last assignment, he was chosen to become the Chief Engineer for Safety and Mission Assurance (S&MA) at the Johnson Space Center. He was responsible for leading the S&MA engineering efforts in support of space shuttle and space station hardware and software integration and mission operations. Herrington flew on STS-113 Discovery (Nov. 23-Dec. 7, 2002), the 16th assembly mission to the International Space Station. STS-113 delivered the Expedition Six crew, supplies, and brought home the Expedition Five crew from their six-month stay aboard the station.

After retiring from the Navy and NASA in October 2005, Herrington completed his Ph.D. in Education at the University of Idaho. His research investigated the factors that motivate and engage Native American youth in STEM education. For the past eight years, Herrington has served as a judge and judge advisor for the FIRST (For Inspiration and Recognition of Science and Technology) Robotics Oklahoma Regional.

Herrington lives in Idaho with his family.
As a world-class research university ranked #20 among 260 national universities, we position our students for career success and leadership in their communities.

In today’s job market, a graduate degree from Emory University’s Laney Graduate School is an investment in your career. Located in Atlanta, Georgia, we offer master’s and doctoral programs in Biochemistry, Cell and Developmental Biology; Biomedical Engineering; Biostatistics; Cancer Biology; Chemistry; Clinical Research; Computer Science and Informatics; Environmental Health Sciences; Epidemiology; Genetics and Molecular Biology; Immunology and Molecular Pathogenesis; Mathematics; MD/PhD; Microbiology and Molecular Genetics; Molecular and Systems Pharmacology; Neuroscience; Nutrition and Health Sciences; Physics; and Population Biology, Ecology and Evolution.

We offer unique professional development opportunities to help students expand their professional networks, connect to successful alumni and travel in support of their work. All applicants are considered for merit awards including, tuition scholarships, stipend support and health insurance.

Invest In Your Career. Impact Your Community.

Contact the Laney Graduate School to learn more.
+1 (404) 727-6028
lgsadmissions@emory.edu
graduateschool.emory.edu
Advance Your Success.

Put yourself further ahead with Murray State University’s graduate programs. We provide high-quality academics with all the facilities and technology of a larger institution, yet we offer small class sizes with hands-on learning opportunities and individualized attention from faculty and staff.

To learn more about graduate studies at Murray State contact Matt Jones

270-809-5304
msu.gradstudies@murraystate.edu
murraystate.edu/graduate

#MurrayState

Earn a Graduate Degree from the University of South Dakota

We are committed to providing convenience and affordability through scholarships, research and creative activity grants and graduate assistantships. The university’s graduate and professional programs are offered on-campus, off-campus and online to meet the unique needs of adult learners.

With more than 70 graduate programs, we have one for you.
Apply Today!
www.usd.edu/grad

Equal education and employment opportunities M/F/D. An employer. Murray State University supports a smoke and healthy campus. Please refrain from personal tobacco use.
American University School of Public Affairs
Auburn University Graduate School
Boise State University Graduate College
Case Western Reserve University Mandel School of Applied Social Sciences
Case Western Reserve University SOURCE Chatham University
Cleveland University Kansas City
Colorado State University Ecosystem Science and Sustainability
Columbia University School of Engineering and Applied Science
Drexel University
Duquesne University
Eastern Washington University
Embry-Riddle Aeronautical University
Emory University Laney Graduate School
Emporia State University
George Mason University
Grand Canyon University
Icahn School of Medicine at Mount Sinai
Institute of International Education
Journal of Student Research
Kansas City University of Medicine and Biosciences
Liberty University
Marian University Indianapolis College of Osteopathic Medicine
Marquette University
Medical College of Wisconsin
Miami University
Michigan Technological University
Missouri State University
Monmouth College
Murray State University
National Institutes of Health Oxford-Cambridge Scholars Program
National Science Foundation Graduate Research Fellowship Program
New York University Tandon School of Engineering
North Carolina State University
North Dakota State University
Northeastern State University
Northwestern Pritzker School of Law
Oklahoma State University Computer Science
Penn State College of Medicine Biomedical Science Graduate Programs
Portland State University
Purdue University
Rensselaer Polytechnic Institute
Rosalind Franklin University of Medicine and Science
Savannah College of Art and Design
St. Cloud State University School of Graduate Studies
St. Jude Children’s Research Hospital Graduate School of Biomedical Sciences
Temple University
Texas Tech University
Texas Tech University Health Sciences Center Graduate School of Biomedical Sciences
The University of Alabama Graduate School
The University of Alabama at Birmingham Med-ED: MD-PhD Program
The University of Alabama in Huntsville
The University of Southern Mississippi
The University of Tulsa
University of Arizona
University of Central Florida College of Graduate Studies
University of Central Oklahoma Department of Design
University of Central Oklahoma School of Music
University of Central Oklahoma Graduate College
University of Chicago
University of Cincinnati College of Arts and Sciences
University of Colorado Denver
University of Illinois at Chicago
University of Illinois at Urbana-Champaign, Human Development and Family Studies Department
University of Kentucky College of Pharmacy
University of Kentucky Diversity and Inclusion
University of Kentucky School of Information Science
University of Minnesota
University of Nebraska
University of Nebraska Medical Center Eppley Institute for Research in Cancer
University of North Texas College of Engineering
University of Oklahoma Gallogly College of Engineering
University of Pittsburgh School of Health and Rehabilitation Services
University of Portland Shiley School of Engineering
University of Rochester Arts, Sciences and Engineering
University of Texas at Arlington
University of Texas at Dallas Bioengineering
University of Texas at San Antonio
University of Washington Tacoma Institute of Technology
University of West Florida Graduate School
University of Wisconsin – Milwaukee
University of Wyoming College of Agriculture and Natural Resources
Van Andel Institute Graduate School
Virginia Commonwealth University School of Medicine
Wayne State University
West Texas A&M University
West Virginia University
Wilkes University
Worcester Polytechnic Institute
OPEN HOUSES

ALL OPEN HOUSES ARE 4 – 6 P.M. THURSDAY, APRIL 5

COLLEGE OF FINE ARTS AND DESIGN – Krottinger Family Gallery, Mitchell Education Center
Overview of graduate programs found within the College of Fine Arts and Design

COLLEGE OF MATH AND SCIENCE – Howell Hall Atrium
Tour of facilities as well as focus on three academic centers:
• Center for Wildlife Forensics and Conservation Studies
• Center for Interdisciplinary Biomedical Education and Research
• Center for Research and Education in Interdisciplinary Computation

COLLEGE OF BUSINESS – Business 113
Overview of graduate programs found within the College of Business

COLLEGE OF EDUCATION AND PROFESSIONAL STUDIES – Education 101
Overview of the graduate programs found within the College of Education and Professional Studies

KINESIOLOGY AND HEALTH STUDIES – Wellness Center 125
Exercise Science Lab Tour

LABORATORY OF HISTORY MUSEUM – Evans Hall Mezzanine Level
Museum tour and overview of the graduate programs in History and Museum Studies

WOMEN’S RESEARCH CENTER AND BGLTQ+ STUDENT CENTER – Thatcher Hall 106
Open house and tour

OFFICE OF GLOBAL AFFAIRS – Nigh University Center 137
Open House to learn about programming efforts, study tours and cross cultural events at UCO

W. ROGER WEBB FORENSIC SCIENCE INSTITUTE - Atrium
Forensic Science Excellence: Opportunities and Initiatives for the 21st Century

SPECIAL INTEREST SESSIONS

Enhance your skills in a variety of areas by attending Special Interest Sessions. Topics range from “networking for nerds,” improving your resume development, successful strategies for scholarships and graduate school admission and more. Sessions are offered Thursday and Friday, April 5-6, in two blocks at 1 and 2 p.m. CUR will offer two additional sessions on Friday. Follow the schedule below.

THURSDAY, APRIL 5, 1-1:50 P.M.

HOW TO DEVELOP A WINNING RESUME OR CV
EDUCATION BUILDING, ROOM 115
Most people know how to create a basic resume, but in this session, you will learn how to create a resume that separates you from the crowd. Need a Curriculum Vitae (CV)? We will also discuss CV creation, the differences between a resume and a CV, and when to use each option.

Presenters
Allison Gardner
Career Counselor
Northeastern State University

Kaylie Bradley
Career Counselor
Northeastern State University

INCLUSION AND DIVERSITY STRATEGIES FOR STUDENT SUCCESS
CHAMBERS LIBRARY, MAX ROOM, 4TH FLOOR
Discover strategies for increasing diversity, promoting inclusion and building community to support retention and success among students from underrepresented backgrounds. Panelists will discuss the challenges and opportunities that confront larger and smaller, public and private, research and comprehensive, and liberal arts institutions. They will share specific initiatives to increase inclusion and diversity on their campuses. Participants will learn about current and emerging best practices in inclusion and diversity work, share experiences and insights from their home campuses, pose questions, and share strategies and resources.

Moderator
Irissa B. Baxter
Oklahoma State University

Panelists
Russ Tallchief
Oklahoma City University

Dr. Rodney Bates
University of Oklahoma

Dr. J. David Macey
University of Central Oklahoma
MAKE YOURSELF A CONTENDER FOR PRESTIGIOUS NATIONALLY-COMPETITIVE SCHOLARSHIPS

EDUCATION BUILDING, ROOM 102

Applying for a prestigious national scholarship requires planning and preparation, often starting one to two years before an actual application is submitted. The President of the Goldwater Foundation Dr. John Mateja and Dr. Ed Galindo, a member of the foundation’s Board of Trustees, will use the application process for the Goldwater program, a competitive national scholarship for sophomores and juniors interested in pursuing research careers in the natural sciences, mathematics and engineering, as an example of how to prepare and to apply for one of these scholarships. Dr. Galindo, who is Native American, and Dr. Mateja, who was a first-generation college student, will place particular emphasis on what students from underrepresented groups should do to make themselves more competitive for these awards.

Presenters
Dr. John Mateja
Goldwater Scholarship Foundation

Dr. Ed Galindo
Goldwater Scholarship Foundation

NETWORKING FOR NERDS: SHAKING HANDS WITH YOUR GOAL

BUSINESS BUILDING, ROOM 113

Research studies suggest that if you can maintain a professional network, you will have more job offers and advance quickly. Further, you will enjoy greater status and have more business opportunities. If you know the value of networking but dread actually doing it, this is the session for you. Stacy Eads, CEO of LEVANT Technologies, an award-winning website design firm whose business is dependent on networking, and Dr. Christy Vincent, Communication professor, will provide practical tips you can use immediately to begin networking. You will learn how to network with a purpose, use nonverbal strategies to read a room and select the best conversations to join, and follow up effectively after your networking efforts.

Presenters
Dr. Christy Vincent
Professor, Organizational Communication / Department of Mass Communication
University of Central Oklahoma

Stacy Eads
LEVANT Technologies, CEO

SUCCESSFUL GRADUATE/PROFESSIONAL SCHOOL ADMISSION STRATEGIES

EDUCATION BUILDING, ROOM 101

This presentation includes an overview of the following graduate/professional school admission topics: explanation of the application process, evaluation of graduate programs, graduate applications and supporting documents.

Presenter
Michael Heppler
Creation’s Best, Educational Consulting Group
Oklahoma State University, Retired

THURSDAY, APRIL 5 2-2:50 P.M.

APPLYING TO GRADUATE SCHOOLS AS A FIRST GENERATION OR UNDERREPRESENTED STUDENT

EDUCATION BUILDING, ROOM 101

This session will help students from these groups prepare for the graduate school application process. Attendees and participants can expect to gain a better understanding of what is included and expected when applying to graduate school. The presenters will cover a wide range of topics, including how to get started, funding opportunities and application requirements. Presenters will also offer tips for applying based on their own personal and professional experiences.

Presenters
Breanna Faris (Cheyenne & Arapaho Tribes) Rosario Riley
Assistant Director, Student Life Director of McNair Scholars, Talent Search,
University of Oklahoma Upward Bound Math Science
University of Central Oklahoma

CREATING A STRONG ADMISSIONS ESSAY

EDUCATION BUILDING, ROOM 102

This session will be a review of specific strategies and steps to create a complete admissions essay for entry into graduate programs. The presenter will also cover the application process, recommendation letters and relationship development.

Presenter
Michael Heppler
Creation’s Best, Educational Consultant Group
Oklahoma State University, Retired
ENTREPRENEURSHIP COUNTERFACTUALS – THINGS WHICH SEEM FALSE, BUT ARE TRUE
BUSINESS BUILDING, ROOM 113
Students often have misconceptions about starting a business. This session explores how these misconceptions can be turned around. Tips will be given on how students can find pathways to reach out and impact the world. For example, money is made on the buying end, not the selling end. Startups often try to control the price of products, but more often the price is already set by the market. By focusing on how the product is made, it increases the margin and chance of profit.

Presenters
Maurice W. Haff
University of Central Oklahoma
Brad Rickelman
Meridian Technology Center for Business Development

TIPS & TRICKS FOR WRITING A LITERATURE REVIEW
CHAMBERS LIBRARY, MAX ROOM, 4TH FLOOR
A literature review synthesizes and summarizes existing knowledge and published research, including expert arguments and conclusions. Students need to develop advanced research skills and search strategies to conduct a compressive analysis of research on a specific topic. Victor Baeza and Jean Longo will provide students with information on how to conduct a literature review. They will include helpful tools and techniques to navigate library resources.

Presenters
Victor Baeza
Director, Library Graduate Services
Oklahoma State University
Jean Longo
Research and Learning Librarian
University of Central Oklahoma

FRIDAY, APRIL 6, 1:15 P.M.
BENEFITS AND CHALLENGES OF STUDENT PUBLICATIONS
CHAMBERS LIBRARY, MAX ROOM, 4TH FLOOR
The benefits and challenges of undergraduate students publishing their work will be enthusiastically debated. These challenges include lack of funding and resources for research and writing, among other issues. Overall, this panel will provide a synopsis of the benefits, challenges, and solutions for respective student publications.

Presenters
Dr. Linda Mason
Coordinator of Grantmanship, Oklahoma State Regents for Higher Education
OSRHE Representative of the “Oklahoma Journal of Undergraduate Research”

Dr. Mark Harvey
Experimental Psychologist, University of North Carolina at Asheville
Editor-in-Chief for the “UNC Asheville Journal of Undergraduate Research,” a campus journal

Nick Pernik
Neuroscience Senior at Austin College, Sherman, Texas
Senior Research Editor of “Journal of Young Investigators”

Brendon Yuill
Graduate Student, University of Central Oklahoma
Associate Publishing Editor New Plains Student Publishing
Editor-in-Chief “1890: A Journal of Undergraduate Research”

HOW TO BE A COMPETITIVE APPLICANT FOR MEDICAL, DENTAL AND PHYSICIAN ASSISTANT SCHOOLS
EDUCATION BUILDING, ROOM 102
It takes more than a high MCAT/DAT/GRE and 4.0 GPA to get into medical, dental and physician assistant graduate programs. We will discuss the unwritten characteristics and attributes that these programs are looking for when they decide to whom to offer the much sought-after acceptance letter. The topics to be discussed include volunteering and shadowing, campus involvement, interview skills, personal statements and research opportunities.

Presenters
Dr. Caroline Bentley
University of Central Oklahoma

Terryl Berryman
Oklahoma School for Science and Mathematics
PANEL DISCUSSION WITH AMERICAN PHYSIOLOGY SOCIETY PROFESSIONALS
EDUCATION BUILDING, ROOM 101
The developmental, psychological and neurological fields of biology are making groundbreaking discoveries at a rapid pace. In this session, professionals in the American Physiological Society (APS) will share their educational pathways and recommendations for undergraduate students thinking of pursuing a career in this area.

Moderator
Bessie M. Guerrant
Associate Director & CUR URPD Counselor
University of Kentucky

THE NSF GRADUATE RESEARCH FELLOWSHIP PROGRAM (GRFP): GETTING THE MOST OUT OF YOUR UNDERGRADUATE RESEARCH EXPERIENCE AND OBTAINING FINANCIAL SUPPORT FOR GRADUATE SCHOOL
EDUCATION BUILDING, ROOM 115
The National Science Foundation GRFP is the nation’s oldest and most established fellowship program that directly supports students in various Science, Technology, Engineering and Mathematics (STEM) fields. Since 1952, NSF has provided funding for over 50,000 Graduate Research Fellowships. To date, 42 Fellows have gone on to become Nobel laureates and more than 450 have become members of the National Academy of Sciences. Undergraduates are highly encouraged to apply. If awarded, this fellowship provides $34,000 per year for three years and a cost-of-education allowance of $12,000 to the graduate degree granting institution. In this session, you will be provided with an overview on what it takes for an undergraduate to apply and be awarded a GRFP.

Presenter
Dr. Michael Thompson
Director of Broader Impacts in Research
University of Oklahoma

FRIDAY, APRIL 6, 2-2:50 P.M.

BROADENING PARTICIPATION WITHIN THE NSF REU PROGRAM
EDUCATION BUILDING, ROOM 102
The National Science Foundation funds opportunities for undergraduate students to conduct meaningful scientific inquiry through its Research Experiences for Undergraduates (REU) program. The program aims to immerse students in research experiences within disciplines that include Science, Technology, Engineering and Mathematics (STEM). Such grants often recruit students from diverse backgrounds who may end up doing research in regions across the world. An REU Principal Investigator will address recruiting students to work in an international research setting, as well as describing opportunities for high school students and teachers through the Research Assistantships for High School Students and Research Experiences for Teachers programs, respectively.

Presenter
John F. Barthell, Ph.D.
Provost/Vice President Academic Affairs
University of Central Oklahoma

EXAMINING THE GRADUATE SCHOOL APPLICATION PROCESS FOR BUSINESS AND LAW SCHOOLS
BUSINESS BUILDING, ROOM 113
This session will examine issues related to preparing for the application process for graduate schools, particularly for entrance into Business and Law Schools.

Presenters
Jennifer Barger Johnson, J.D.
Professor of Legal Studies and Copyright Compliance Officer
University of Central Oklahoma
Victoria McKee, Ph.D.
Assistant Professor of Management
University of Central Oklahoma

TALK THE SKILLS TO PAY YOUR BILLS: INTERVIEWING LIKE A PRO
EDUCATION BUILDING, ROOM 115
"Tell me about yourself." "What are your weaknesses?" Many people dread the thought of participating in an interview. Participants will learn best practices to succeed in an interview, including preparation tips, effective answers, follow up and more. Win over professional employers and graduate/medical schools and learn how to convince them to choose you.

Presenter
Lawrence Richardson
Career Coordinator
Oklahoma State University
USE YOUR UNDERGRADUATE EXPERIENCES TO STRENGTHEN YOUR GRADUATE SCHOOL APPLICATION

CHAMBERS LIBRARY, MAX ROOM, 4TH FLOOR
In this roundtable discussion, you will hear directly from current graduate students who participated in undergraduate research and presented at past NCUR events. They will discuss how engaging in undergraduate research transformed them from both a personal and professional perspective and helped to prepare them for graduate school. The graduate students will also reflect how their participation in past NCUR and discipline-specific professional conferences helped them get accepted and succeed in graduate school.

Moderator
Dr. Mel Vaughan
Professor
University of Central Oklahoma

Graduate Students
Ana Chicas-Mosier
Bridge to Doctorate Fellow,
Oklahoma State University
Ph.D. Candidate in Integrative Biology

Lauren N. Ross
Graduate Teaching Assistant
Master Student in Art History,
University of Oklahoma

Edith Ritt-Coulter
Master Student in History specializing
in the African Diaspora and Gender Studies
University of Central Oklahoma

Adrian A. Saenz
Bridge to Doctorate Fellow,
Oklahoma State University
Master Student in Biosystems Engineering

ADDITIONAL SESSIONS OFFERED BY CUR

STUDENT RESOURCES CENTER
9-11 A.M. AND 12:30-3 P.M. FRIDAY, APRIL 6
CENTER FOR TRANSFORMATIVE LEARNING, ROOM 106
Members of the CUR Student Programs Task Force will be available to meet with students to offer resources and expertise on a variety of topics, including resume/CV writing and critiquing (bring your resume for review), how to do an effective poster or oral presentation, how to write a cover letter, how to network, plus other student-identified areas. All students are encouraged to stop by the center for any assistance, mentoring and guidance.

INTERACTIVE STUDENT FORUM ON LEARNING
3:30-5 P.M. FRIDAY, APRIL 6
CENTER FOR TRANSFORMATIVE LEARNING, ROOM 106
Members of the CUR Student Programs Task Force will host an interactive student forum on assessing the impact of NCUR 2018 on their learning. All students are invited to participate in this forum.
The Academy of Contemporary Music at UCO (ACM@UCO) invites you to join them in a takeover of Oklahoma City’s Bricktown entertainment district for an unforgettable evening of music. Now in its ninth year, the ACM@UCO’s Metro Music Fest features performances by the talented students studying at the academy alongside headlining acts from throughout the country. Headlining this year’s festival are Prince’s iconic band THE REVOLUTION and legendary singer MAVIS STAPLES.

The Revolution, composed of Wendy Melvoin, Lisa Coleman, Bobby Z, BrownMark and Dr. Fink, is best known as the band behind Prince. The Revolution have two No. 1 Billboard 200 albums – “Purple Rain” and “Around the World in a Day” – and multiple No. 1 singles. The band also has won three Grammys and three American Music Awards. After Prince’s death in 2016, the band remained united to continue to play in his honor. “Only by playing for you, the fans, can we be Prince’s Revolution,” the band stated in its official biography. “He gives us to one another now, as we all start to heal and fill forever emptiness with sound. Together, we are The Revolution.”

Two-time Grammy winner, Rock and Roll Hall of Fame inductee and civil rights icon Mavis Staples brings soul and gravitas to the festival this year. Mavis and her five-person band move fluidly between the gospel, soul, rock, rhythm-and-blues and country genres of the American roots music she helped pioneer with her family band, The Staple Singers. She was recognized as a 2016 Kennedy Center Honoree, is a Grammy Lifetime Achievement Award recipient and has been honored by the Berklee College of Music and Columbia College Chicago with honorary doctorate degrees.

Her 2017 album, the critically-acclaimed “If All I Was Was Black” (ANTI-), is her third collaboration with songwriter and producer Jeff Tweedy of Wilco. The album is the first for which Tweedy composed an entire album of original songs for Mavis’ legendary voice. “Bring us all together as a people, that’s what I hope to do,” Staples said of the songs on her new album. “You can’t stop me. You can’t break me, I’m too loving. These songs are going to change the world.”

“The Revolution and Mavis Staples are representative of everything that is right with the music industry,” said Scott Booker, CEO of ACM@UCO. “These are artists that cross musical boundaries of soul, rock, pop and dance, as well as being representative of who we are as an American people. The Revolution and Mavis Staples are shining examples of how great it is when creative people collaborate and bend the rules, and ACM is proud to bring these incredible artists to Oklahoma for Metro Music Fest.”

Check out the complete lineup of artists performing at the festival, as well as start times and venues, at acm.uco.edu/metro-music-fest.
EXCURSIONS

Discover the exciting sights, unheard sounds and ultimate surprises Oklahoma has to offer. Make a splash at the RIVERSPORT Adventures, get your kicks on Route 66 or revel in our deep-rooted Native American history. Tap your boots in Stockyard City, take in our rich western heritage or walk the sacred grounds at the Oklahoma City National Memorial. Let DESTINATION OKLAHOMA be your guide to our most famous, fascinating and sometimes forgotten treasures. You’ll learn it’s a land of sass, spirit and soul.

A WALK ON THE WILD SIDE ($59)
SATURDAY, APRIL 7, 12:30 to 5:30 p.m.
Adventures is waiting for you in northeast Oklahoma City. The Adventure District is home to some of the most outstanding tourist attractions in the state. Experience an internationally renowned collection of Western art and artifacts at the NATIONAL COWBOY & WESTERN HERITAGE MUSEUM. The museum is home to a permanent collection of over 2,000 paintings and sculptures that paint a picture of the West. Next, take a walk on the wild side at the OKLAHOMA CITY ZOO, one of the nation’s top zoological parks with a diverse animal collection of 459 species and approximately 1,401 animals, as well as a new state-of-the-art animal hospital.

CHICKASAW COUNTRY ($55)
SATURDAY, APRIL 7, 12:30 to 7:30 p.m.
Head out to Sulphur, Oklahoma and immerse yourself in Native American culture. The CHICKASAW CULTURAL CENTER tells a story of the individuals and families who have struggled, fought and thrived across generations to make Chickasaws the united and unbeatable people they are today. The Chickasaw Cultural Center is a cultural home and embodiment of the Chickasaw Nation’s legacy. Take a stroll through the picturesque CHICKASAW NATIONAL RECREATION AREA and enjoy the invigorating scenery. Next, satisfy your sweet tooth with a tour of the BEDRE CHOCOLATE factory. The Chickasaw Nation is the only tribe to create its own brand of fine chocolates. Their recipes are tried and true and reflect the time-honored tradition of the Native American peoples who first cultivated this divine delicacy.

GLASS MASTERS ($55)
SATURDAY, APRIL 7, 12:30 to 5:30 p.m.
Indulge in local art with a tour of BLUE SAGE STUDIOS, a full-service glass blowing studio specializing in the production of art glass, vases, bowls and sculpture. Blue Sage Studios offers glassblowing lessons, demonstrations, lampworking (bead making) and art glass for sale. With a love of teaching and a love of glass, guests will witness glass blowing and learn the process. Then, head to the OKLAHOMA CITY MUSEUM OF ART, located in the heart of Downtown Oklahoma City’s Arts District. The museum is home to an extensive permanent collection of European and American art, including the most comprehensive collection of Dale Chihuly glass in the world.
Our students are driven by the desire to make their mark on the world and leave it a better place.

Our Master’s programs prepare leaders for a profession of purpose:

- Master of Public Administration (MPA)
- Master of Public Policy (MPP)
- MS in Terrorism and Homeland Security
- MS in Justice, Law & Criminology
- MA in Political Communication
- MA in Political Science

LEARN MORE:
SPAInfo@american.edu
www.american.edu/spa/admissions

A 2-year plan designed to provide a solid and proven foundation for employment in business, industry, and government: intensive science and engineering course work, management and communication training, prestigious internship opportunities, full- or part-time study!

5 programs available
- BIOSCIENCE AND HEALTH POLICY
- ENVIRONMENTAL ANALYSIS
- NANOSCALE SCIENCE
- SPACE STUDIES
- SUBSURFACE GEOSCIENCE

www.profms.rice.edu

Visit Edmond Chamber members for quality services, products, and experiences.

Checkout our members first for the best restaurants, shopping, and more!

www.edmondchamber.com

Discussions is looking for research papers written by current undergraduate students on any topic. A student may submit a paper from a class, as long as their work presents a new and innovative idea.

Visit http://www.cseae.edu/discussions to find our online submission form.

Formatting for papers:
- Double-spaced, 12 pt. Times New Roman
- Pages should not be numbered
- References in APA format
- Figures & images must be well-labeled and referenced in the text.
- All figures should be included in the article document.
- All tables should be included in the article document.
- Figures should have legends and error bars, if necessary.

Email us at discussions@jurnal@gmail.com

www.edmondchamber.com
**TAKE YOUR RESEARCH TO THE NEXT LEVEL**

EARN YOUR MASTER’S DEGREE IN ENGINEERING

Wilkes is the leading provider of graduate engineering programs in northeast Pennsylvania. We offer the hands-on learning and research opportunities that can increase your career prospects and advancement potential.

Study in our state-of-the-art labs under the guidance of faculty members who have extensive professional experience, bringing practical insight to industry challenges and trends. Graduate assistantships are available.

**CHOOSE FROM DEGREES IN:**
- Bioengineering M.S.
- Electrical Engineering M.S.
- Engineering Management M.S.
- Mechanical Engineering M.S.

Learn more at www.wilkes.edu/engineers.

Questions? Stop by our table in the exhibit hall or call (800) WILKES-U Ext. 3338.

---

**SUMMER UNDERGRADUATE RESEARCH PROGRAM (SURP)**

Spend your summer in a state-of-the-art research institution as a team member – using and expanding your scientific knowledge and skills, and learning more about opportunities in healthcare and research. Selected students experience a 10-week, full-time research position receive a stipend and attend enrichment seminars. Learn more: bit.ly/2ATRihM.

**CANCER RESEARCH DOCTORAL PROGRAM**

The Cancer Research Doctoral Program, offered through the Eppley Institute, is the cornerstone of a National Cancer Institute-supported Cancer Biology Training Program at UNMC. The Cancer Research Doctoral Program is one of six programs within the Interdisciplinary Graduate Program in Biomedical Sciences (IGPBS) and is located in the new Fred & Pamela Buffett Cancer Center, which brings translational research to the oncologist’s doorstep. Learn more: unmc.edu/eppley.

---

**TAKE YOUR RESEARCH TO THE NEXT LEVEL**

**NORTH DAKOTA STATE UNIVERSITY**

86 master's programs
53 doctoral programs
15 certificate programs

See our website for more information:
ndsu.edu/gradschool

---

**WAYNE STATE UNIVERSITY**

Be a part of Detroit’s unprecedented urban renaissance. In the heart of it all. The Wayne State Campus is in Midtown Detroit within walking distance of Fortune 500 headquarters, major health care systems, and acclaimed museums and entertainment venues.

- Michigan’s most diverse campus, welcoming students from 80 countries.
- WSU holds the Carnegie Foundation’s top classifications in research and community engagement.

Learn more about our programs:
www.gradschool.wayne.edu
Marquette University located in Milwaukee, Wis., offers 70 doctoral and master's degree programs and 21 graduate certificate programs through our Graduate School. We set the highest standards of academic excellence in order to create remarkable results. Prepare to live a life of purpose, to carry out actions that better the world and Be The Difference.

Learn more at marquette.edu/grad.

**Publish in a peer-reviewed journal!**

Papers & Publications (P&P) is a regional, peer-reviewed journal of undergraduate research, promoting student learning by disseminating undergraduate research and creative works that make an intellectual or creative contribution to the discipline or to applied practice. This journal is published annually by the Center of Undergraduate Research and Creative Activities (CURCA) at the University of North Georgia with support by the UNG Libraries.

**Submission Guidelines**

Students may submit original critical or creative works that have been presented at a conference, showcase, or capstone course. Submissions are welcome from students affiliated with colleges and universities in the southeastern United States, including Alabama, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, and Virginia. The work may not be printed or under consideration by other publications.

---

**FACULTY ADMINISTRATOR NETWORK (FAN)**

**ORAL SESSIONS**

**FAN ORAL SESSION 1 - THU**

12:00PM-12:50PM

OLD NORTH 205 - FAN

12:00-12:50 p.m.

A Discussion About Curriculum Design and Coursework: How a Sophomore-Level Research Class Has Larger Implications for Undergraduate Research Opportunities Outside of the Classroom

CRYSTAL BICKFORD, Southern New Hampshire University

---

OLD NORTH 206 - FAN

12:00-12:50 p.m.

Bandwidth Recovery: Working with Low-Income and Non-Majority Students

Cia Verschelden, University of Central Oklahoma

---

OLD NORTH 207 - FAN

12:00-12:50 p.m.

Broadening Participation: The Perspective of an REU PI

John Barthell, University of Central Oklahoma

---

OLD NORTH 208 - FAN

12:00-12:50 p.m.

Creating a Biofilm-themed Interdisciplinary Undergraduate Research Program at a PUI

Christopher Wentworth, Doane College

---

OLD NORTH 211 - FAN

12:00-12:50 p.m.

Transdisciplinary Undergraduate Research In Costa Rica: 5 Week Faculty Led Study Abroad Model

Sara Shuger Fox, Central College

---

**FAN ORAL SESSION 2 - FRI**

7:40AM-8:30AM

EDUCATION BUILDING 115 - FAN

7:40-8:30 a.m.

Undergraduate Research and Discipline-Specific Applications of Cognitive Science

Samuel Lawrence, University of Central Oklahoma

---

OLD NORTH 205 - FAN

7:40-8:30 a.m.

“Steps Toward Success: Implementing Undergraduate Research and Creative Opportunities in the Oklahoma Regional University System”

Jennifer McMahon, East Central University

---

OLD NORTH 206 - FAN

7:40-8:30 a.m.

Bridging the Divide with Classroom Based Undergraduate Research Experiences That Explore the Effects of Genetic Variation

Moriah Beck, Wichita State University

---

OLD NORTH 207 - FAN

7:40-8:30 a.m.

Broadening Research Diversity at a Medium-sized Teaching Institution

Flona Redway, Barry University

---

OLD NORTH 208 - FAN

7:40-8:30 a.m.

Faculty-mentored Undergraduate Research: a Qualitative Examination of Its Influence on Student Engagement and Academic Achievement

Michael Nichols, Northern Arizona University
FACULTY ADMINISTRATOR NETWORK (FAN) ORAL SESSIONS

OLD NORTH 211 - FAN
7:40-8:30 a.m.
Internationalizing Undergraduate Research Through the Staging of the First World Congress on Undergraduate Research
Maher Khelifa, Qatar University

FAN ORAL SESSION 3 - FRI
12:30PM-1:20PM
OLD NORTH 205 - FAN
12:30-1:20 p.m.
“Yes, We Are Open: Challenges and Opportunities in Opening an Office of Undergraduate Research and Creative Activity”
David Salomon, Christopher Newport University

OLD NORTH 206 - FAN
12:30-1:20 p.m.
A Flexible Approach to Incorporating Authentic Research Experiences into the Introductory Life-Science Curricula
Donald French, Oklahoma State University

OLD NORTH 207 - FAN
12:30-1:20 p.m.
Developing a Foundation for International Undergraduate Research Cooperation: A Discussion
Michael Reiter, Bethune Cookman College

OLD NORTH 208 - FAN
12:30-1:20 p.m.
Integrating Global Learning and Undergraduate Research into a Liberal Arts International Studies Curriculum: Evidence of Success and Challenges to Consider
Aaron Boesenecker, American University

OLD NORTH 211 - FAN
12:30-1:20 p.m.
Undergraduate Research Magicians
Amanda Evert, Southwestern Oklahoma State University

OLD NORTH 211 - FAN
7:40-8:30 a.m.
“The Measurement of Student Transformative Learning at an Institutional Level
Mark Walvoord, University of Central Oklahoma

STUDENT PERFORMING ARTS SESSIONS

STUDENT PERFORMING ARTS SESSION 1 - THU 10:45AM-11:45AM
CENTER FOR TRANSFORMATIVE LEARNING - RADKE FINE ARTS THEATRE
Music
10:45-11:05 a.m.
“Determining Effective Methods of Teaching Beginning String Players of Differing Ages”
Brian Dunagan, University of Central Oklahoma

Music Performance
11:05-11:25 a.m.
“Theme and Variations on the Song by Franz Strauss’ Nocturne Op. 7”
Katherine Hood, Appalachian State University

MUSIC PERFORMANCE
11:25-11:45 a.m.
“Arabian Nights”
Chengcheng Zhu, University of Central Oklahoma

HEALTH AND PHYSICAL EDUCATION 204
Dance Choreography and Performance
2:20-2:40 p.m.
“Back at Home Project: Stories of Veterans in Transition”
Arielle Simmons, Kennesaw State University

STUDENT PERFORMING ARTS SESSION 2 - THU 1:00PM-2:00PM
HEALTH AND PHYSICAL EDUCATION 204
Dance Choreography and Performance
1:20-1:40 p.m.
“Empty Vessels: Zombies in Their Lore Versus Zombies Today”
Alexis Hendrix, University of Central Oklahoma

STUDENT PERFORMING ARTS SESSION 3 - THU 2:20PM-3:20PM
CENTER FOR TRANSFORMATIVE LEARNING - RADKE FINE ARTS THEATRE
Music Performance
2:20-2:40 p.m.
“A Flaw in Our DNA”
Scott Salse, University of Central Oklahoma

Music Performance
2:40-3:00 p.m.
“Horns ‘Dancing on a Hill’”
Zachary Anderson, University of Central Oklahoma

HEALTH AND PHYSICAL EDUCATION 204
Dance Choreography and Performance
3:00-3:20 p.m.
“Back at Home Project: Stories of Veterans in Transition”
Arielle Simmons, Kennesaw State University

MITCHELL EDUCATION CENTER 211
Art & Society
1:00-1:20 p.m.
“Udea: Fairytales and Human Trafficking”
Dylan Carter, Kennesaw State University
STUDENT PERFORMING ARTS SESSIONS

STUDENT PERFORMING ARTS SESSION 4 - THU 3:40PM-4:40PM
HEALTH AND PHYSICAL EDUCATION 204
Dance Choreography and Performance
4:20-4:40 p.m.
Shades of Bereavement
Lacy Alenart, University of Central Oklahoma

MITCHELL EDUCATION CENTER 211
Diversity Studies
3:40-4:00 p.m.
How the Traditional Game of Stickball Is Played
Jared Greenwood, University of Central Oklahoma

STUDENT PERFORMING ARTS SESSION 5 - FRI 8:30AM-9:30AM
CENTER FOR TRANSFORMATIVE LEARNING - RADKE FINE ARTS THEATRE
Music
8:30-8:50 a.m.
A Study of Simon Steen-Anderson’s Composition, “De Profundis,” for Unaccompanied Saxophone Also Playing Percussion
Jonathan Steltzer, Kennesaw State University

8:50-9:10 a.m.
Post-Impressionism and Debussy’s Children’s Corner
Gabriel Van Ness, University of Central Oklahoma

9:10-9:30 a.m.
Waltz Versus the French Suite
Stephane Philippeaux, Bridgewater State University

MITCHELL EDUCATION CENTER 211
Poetry & Creative Writing
8:30-8:50 a.m.
Muslim and Minority Victimization in the Current Sociopolitical Climate
Hiba Cheema, University of Central Oklahoma

STUDENT PERFORMING ARTS SESSION 6 - FRI 9:45AM-10:45AM
HEALTH AND PHYSICAL EDUCATION 204
Dance Choreography and Performance
10:25-10:45 a.m.
The Exploration of Dynamic Attractiveness Through Dance Movement
Isaiah Harris, State University of New York-Brockport

MITCHELL EDUCATION CENTER 211
Theatre/Drama
9:45-10:05 a.m.
A Lifetime of Being Female
Olivia Wells, University of Central Oklahoma

STUDENT PERFORMING ARTS SESSION 7 - FRI 1:30PM-2:30PM
CENTER FOR TRANSFORMATIVE LEARNING - RADKE FINE ARTS THEATRE
Music
1:50-2:10 p.m.
Charles Ives and Musical Borrowing in the Creation of His “114 Songs”
Lillian Wright, Jacksonville University

MITCHELL EDUCATION CENTER 211
Theatre/Drama
1:30-1:50 p.m.
Aesthetic Values of the Baroque Period vs. Today (Why Does Historical Music Sound “Bad?”)
Alyson Byers, University of Central Oklahoma

2:10-2:30 p.m.
Melancholy Music: Performers’ Approach to Mentally Unstable Romantic Composers and Their Works
Hannah Bythrow, Eastern Connecticut State University

HEALTH AND PHYSICAL EDUCATION 204
Dance
2:10-2:30 p.m.
The Day Everything Changes
Linda Pope, University of Central Oklahoma

STUDENT PERFORMING ARTS SESSION 8 - FRI 2:45PM-3:45PM
HEALTH AND PHYSICAL EDUCATION 204
Dance
3:25-3:45 p.m.
[Hollow]
Bailey Smith, University of Central Oklahoma

MITCHELL EDUCATION CENTER 211
Theatre/Drama
2:45-3:05 p.m.
The Elephant Man: A Look at Making Bold Acting Choices
Riley Turner, University of Central Oklahoma

STUDENT PERFORMING ARTS SESSION 9 - FRI 4:00PM-5:00PM
CENTER FOR TRANSFORMATIVE LEARNING - RADKE FINE ARTS THEATRE
Music
4:00-4:20 p.m.
Group Learning Using Clavinovas (YAMAHA Digital Keyboards) Versus Individual Learning at an Acoustic Piano – A Comparative Study
Chenxi Li, University of Central Oklahoma

4:40-5:00 p.m.
The Mental and the Musical in the Art of Violin Playing
Antonique Burnett, Eastern Illinois University

Music Performance
4:00-4:20 p.m.
Group Learning Using Clavinovas (YAMAHA Digital Keyboards) Versus Individual Learning at an Acoustic Piano – A Comparative Study
Chenxi Li, University of Central Oklahoma

HEALTH AND PHYSICAL EDUCATION 204
Dance
4:40-5:00 p.m.
Forlorn
Sneha Rajan, University of Kentucky

MITCHELL EDUCATION CENTER 211
Theatre/Drama
4:00-4:20 p.m.
The Elephant Man: A Look at Making Bold Acting Choices
Riley Turner, University of Central Oklahoma

STUDENT PERFORMING ARTS SESSION 9 - FRI 4:00PM-5:00PM
CENTER FOR TRANSFORMATIVE LEARNING - RADKE FINE ARTS THEATRE
Music
4:00-4:20 p.m.
The Mental and the Musical in the Art of Violin Playing
Antonique Burnett, Eastern Illinois University

Music Performance
4:00-4:20 p.m.
Group Learning Using Clavinovas (YAMAHA Digital Keyboards) Versus Individual Learning at an Acoustic Piano – A Comparative Study
Chenxi Li, University of Central Oklahoma

HEALTH AND PHYSICAL EDUCATION 204
Dance
4:40-5:00 p.m.
Forlorn
Sneha Rajan, University of Kentucky

MITCHELL EDUCATION CENTER 211
Theatre/Drama
4:00-4:20 p.m.
The Elephant Man: A Look at Making Bold Acting Choices
Riley Turner, University of Central Oklahoma
STUDENT PERFORMING ARTS SESSIONS

STUDENT PERFORMING ARTS SESSION 10 - SAT 8:30AM-9:30AM
CENTER FOR TRANSFORMATIVE LEARNING - RADKE FINE ARTS THEATRE
Music Performance
8:30-8:50 a.m.
Korean Samul Nori
Hannah Nilsson, Eastern Connecticut State University

8:50-9:10 a.m.
The Manner of Ornamentation in Baroque Keyboard Playing
Tanja Knezevic, University of Central Oklahoma

9:10-9:30 a.m.
Take, O Take Those Lips Away
Han Gao, University of Central Oklahoma

MITCHELL EDUCATION CENTER 211
Theatre/Drama
8:30-8:50 a.m.
The UCO Labyrinth: A Site for Inner Reflection, Social Change, and Transformative Learning
Hannah Stevens, University of Central Oklahoma

8:50-9:10 a.m.
Playing the Play: How We Wrote a Play by Playing Games
Cory Fitzsimmons, University of Wisconsin - Milwaukee

STUDENT VISUAL ARTS EXHIBIT SESSIONS

STUDENT VISUAL ARTS EXHIBIT SESSION 5 - FRI 8:30AM-9:30AM
COMMUNICATIONS BUILDING 211
Art & Society
8:50-9:10 a.m.
How Can Botany Influence Printmaking?
Mikaela Leonzio, Slippery Rock University of Pennsylvania

9:10-9:30 a.m.
Human Migration Trauma By Boat
Nina Nguyen, University of Central Oklahoma

COMMUNICATIONS BUILDING 213
Visual Arts
8:30-8:50 a.m.
(Con)Struere : a Construction of Deductions on the Encounters of Every Day Life
Laurie De Jesús, University of Puerto Rico - Río Piedras Campus

8:50-9:10 a.m.
A Mytho-Historical Approach to Contemporary Artist’s Books
Vanessa Lopez, Eastern Illinois University

COMMUNICATIONS BUILDING 214
Visual Arts
8:30-8:50 a.m.
In Light of Space
Lena Leuci, Truman State University

9:10-9:30 a.m.
Nostalgia, Spirituality, Loss and Routine.
Chris Schulte, University of Central Oklahoma

COMMUNICATIONS BUILDING 213
Visual Arts
9:45-10:05 a.m.
Composing Representation; Toxic Relationships as Visual Art
Serena Johnson, University of Wisconsin - Whitewater

10:05-10:25 a.m.
Crossroads: Intersection of Ceramics and Sculpture
Shveta Agarwal, Minnesota State University, Mankato

10:25-10:45 a.m.
States of the Body Through Contemporary Painting
Liz Moore, University of Kentucky
STUDENT VISUAL ARTS EXHIBIT SESSIONS

10:25-10:45 a.m.
Stories in Stone and Glass: Mythology and Mosaic
Kayla Wright, Western Carolina University

1:50-2:10 p.m.
Living as a Woman: an Examination and Critique of the Feminine Through Art
Emily Anderson, Hamline University

2:10-2:30 p.m.
Macro/Micro
Kevin O’Leary, University of West Florida

COMMUNICATIONS BUILDING 216

Art History
9:45-10:05 a.m.
Black Letter Typography: Historical and Contemporary Design
Aurelia Tauscher, Eastern Illinois University

10:05-10:25 a.m.
Visual Art History
Zachary Rutter, Slippery Rock University

STUDENT VISUAL ARTS EXHIBIT SESSION 7 - FRI 1:30PM-2:30PM

COMMUNICATIONS BUILDING 211

Art & Society
1:50-2:10 p.m.
The Future of American Currency Through Improved Artistic and Security Elements
Kristen Pack, Georgia College and State University

2:10-2:30 p.m.
The Universe Under a Microscope
Claire Chabot, University of South Carolina - Columbia

COMMUNICATIONS BUILDING 213

Visual Arts
1:30-1:50 p.m.
Ethics and Technology Through Art
Stuart Balus, Westmoreland County Community College

STUDENT VISUAL ARTS EXHIBIT SESSION 8 - FRI 2:45PM-3:45PM

COMMUNICATIONS BUILDING 211

Art & Society
2:45-3:05 p.m.
Void
Jade Knox, University of Tennessee at Knoxville

STUDENT ORAL SESSION 1 - THU 10:45AM-11:45AM

BUSINESS BUILDING 105

Communications
10:45-11:05 a.m.
“The Duplicity of Innocence”
Telena Turner, The University of Virginia’s College at Wise

11:05-11:25 a.m.
“Do Not Feed the Stereotype”: A Metaphoric Criticism of Gregg Deal’s Ethnographic Zoo
Benjamin Woodberry, University of West Florida

11:25-11:45 a.m.
“You’re Drunk and Disgusting:” Misperceptions of Binge Drinker’s Social Identity and Impression Management
Katie Dickins, Juniata College

BUSINESS BUILDING 108

Interdisciplinary Studies
11:05-11:25 a.m.
The Influence of Chicago Public Housing Policy on Drill Rap Music
Elijah Nachison, Virginia Commonwealth University

11:25-11:45 a.m.
“The Llorona’s” Influence on Modern Tejano Culture
Scout Rhodes, San Jacinto College Honors Program

BUSINESS BUILDING 110

Philosophy & Ethics
11:05-11:25 a.m.
Understanding Fake News in a “Post-Truth” World: Using Virtue Ethics to Face the Challenges of Today’s Media Technologies
Jonathan Toronto, Utah State University

BUSINESS BUILDING 112

Literature
10:45-11:05 a.m.
“A Series of Happy Days”: A Look Behind the Relationship Between Research and Creative Writing in an Original Collection of Short Stories
Gabriela Rivera Marin, University of Puerto Rico - Rio Piedras Campus

11:25-11:45 a.m.
The Power of the Firstborn: J.R.R. Tolkien and the Recreation of the Elves
Samuel Lucas, Mississippi St Univ-Shackouls Honors Col

BUSINESS BUILDING 125

Literature
10:45-11:05 a.m.
Language in Today’s Society: Communication Versus Expression
Brittany Barlow, University of Central Oklahoma

11:05-11:25 a.m.
Like a Purple Thread: The Continuous Storyline of A Rebours, The Picture of Dorian Gray, and De Profundis
Charlotte Kalfas, Northern Kentucky University

11:25-11:45 a.m.
Louise Labé and Bisexual Agenda
Alixandra Haggard, University of Central Oklahoma
<table>
<thead>
<tr>
<th>Student Oral Session 1 - THU 10:45AM-11:45AM</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BUSINESS BUILDING 126</strong></td>
</tr>
<tr>
<td><strong>Linguistics</strong></td>
</tr>
<tr>
<td>10:45-11:05 a.m.</td>
</tr>
</tbody>
</table>
| Bialystok’s Bilingual Advantage Hypothesis: the Case of Spanish-English Bilinguals  
  Gabriela O’Connor, Texas State University - San Marcos |
| 11:05-11:25 a.m.                          |
| Disappearing Languages                    |
| Sierra Swanda, Southwestern Oklahoma State University |

| **BUSINESS BUILDING 205**                 |
| **English**                              |
| 10:45-11:05 a.m.                          |
| “Blackness” as a Creature; Shakespeare’s Critique of Race in Othello  
  Holly Anderson, University of Wisconsin - Whitewater |
| 11:05-11:25 a.m.                          |
| Ambiguous Identity and the Borderlands   |
| Joy Carino, Mississippi St Univ-Shackouls Honors Col |
| 11:25-11:45 a.m.                          |
| Adapting Shakespeare: Stage Performances for Children  
  Olivia Leyva, California Lutheran University |

| **BUSINESS BUILDING 207**                 |
| **English**                              |
| 11:05-11:25 a.m.                          |
| Beyond the Mother-Teacher: How Teaching Became Women’s Work  
  Nicole Green, Eastern Connecticut State University |
| 11:25-11:45 a.m.                          |
| Challenging Bloodline Within the English  |

| **BUSINESS BUILDING 209**                 |
| **English**                              |
| 10:45-11:05 a.m.                          |
| Mutual Respect: Using a Non-Directive Approach to Promote Racial Justice in Writing Centers  
  Wallace Golding, University of Alabama at Birmingham |
| 11:05-11:25 a.m.                          |
| Mythopoeia: Science Fiction and Religion During the Golden Age  
  Katie Patyk, Luther College |
| 11:25-11:45 a.m.                          |
| Native American Enculturation and Composition  
  Noah Patton, Southeastern Oklahoma State University |

| **BUSINESS BUILDING 210**                 |
| **English**                              |
| 10:45-11:05 a.m.                          |
| The Paradoxical Nature of Innocence and Experience in Blake’s Illustrations  
  Stephanie Montalvo, Brooklyn College |
| 11:05-11:25 a.m.                          |
| The Portrayal of Women in Nike Advertisements: Gender Politics and Rhetorical Strategies  
  Kathryn Pullano, Lubbock Christian University |
| 11:25-11:45 a.m.                          |
| The Pros, Cons, and Ethics of Slacktivism  
  Sadie Webster, Utah State University |

| **BUSINESS BUILDING 211**                 |
| **Political Science**                     |
| 11:05-11:25 a.m.                          |
| Brexit  
  Kali Jenkins, Oklahoma City University |
| 11:05-11:25 a.m.                          |
| Police Performance, Effectiveness, and Impact  
  Crystal Assenmacher, American University |
| 11:25-11:45 a.m.                          |
  Peter Lucier, Montana State University Bozeman |

| **BUSINESS BUILDING 212**                 |
| **Political Science**                     |
| 10:45-11:05 a.m.                          |
| Planned Parenthood Clinics and Activist Mobilization  
  Sara Hayer, Lafayette College |
| 11:05-11:25 a.m.                          |
| Black Women, Hair, and Law: An Exploration of Misogynoir in the US Legal System  
  Jad Buckley, Mercer University |
| 11:25-11:45 a.m.                          |
| Critique of Whiteness in the Film Free State of Jones  
  Amanda Brown, Oklahoma State University |

| **CENTER FOR TRANSFORMATIVE LEARNING 101** |
| **African American Studies**              |
| 10:45-11:05 a.m.                          |
  sidé chléuh, St. Mary ’s College of Maryland |
| 11:05-11:25 a.m.                          |
| Memorializing Conflict: A Case Study on the Museology of War in Bosnia and Herzegovina  
  Claire Randolph, Long Island University |
| 11:25-11:45 a.m.                          |
| Monarchical and Authoritarian Regime Stability: A Comparison of Arab Spring Events in Jordan and Syria  
  Sydney Crawford, University of Kansas School |
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Speaker</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:45-11:05 A.M.</td>
<td><strong>CENTER FOR TRANSFORMATIVE LEARNING 117</strong></td>
<td><strong>History</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10:45-11:05 A.M.</td>
<td>“Every Student Thinks Himself a Poet”: Higher Education in the Antebellum South</td>
<td>Gabrielle Hale, Mercer University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11:05-11:25 A.M.</td>
<td>The Advantages of Mongol Religious Ideologies</td>
<td>Autumn Langemeier, University of Nebraska at Kearney</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11:25-11:45 A.M.</td>
<td>Art of the Grotesque</td>
<td>Mallory Biller, Westmoreland County Community College</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11:05-11:25 A.M.</td>
<td>“Are We There Yet?” Childhood Stories of the Western Trails.</td>
<td>Zoe King, University of Northern Colorado</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11:25-11:45 A.M.</td>
<td>The Birthplace of Texas</td>
<td>Tyler White, San Jacinto College</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10:45-11:05 A.M.</td>
<td><strong>CENTER FOR TRANSFORMATIVE LEARNING 118</strong></td>
<td><strong>History</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10:45-11:05 A.M.</td>
<td>From Patriarchal Tool to Feminist Empowerment: Multi-Layered Meanings of the Corset in Culture</td>
<td>Marina Nye, Albeight College</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11:05-11:25 A.M.</td>
<td>Geneva to Berlin: Nikita Khursheee and Diplomatic Interplay Between the USSR and Western Powers During the Cold War Era 1955-1962</td>
<td>Harrison Daubitz, Iowa State University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11:25-11:45 A.M.</td>
<td>In His Image: A Question of Creation and Humanity’s Right to Inherent Dignity</td>
<td>Taylor Justison, Valparaiso University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10:45-11:05 A.M.</td>
<td><strong>CENTER FOR TRANSFORMATIVE LEARNING 239</strong></td>
<td><strong>Religious Studies</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10:45-11:05 A.M.</td>
<td>Advocating for Sustainable Tomorrows: Evil and Hope in Traditional and Process Theologies</td>
<td>Andrew Thompson, Capital University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11:05-11:25 A.M.</td>
<td>Gaza: The Architecture of Death and the City of the Dead</td>
<td>Shlomo Sand, Bar-Ilan University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11:25-11:45 A.M.</td>
<td>In His Image: A Question of Creation and Humanity’s Right to Inherent Dignity</td>
<td>Taylor Justison, Valparaiso University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10:45-11:05 A.M.</td>
<td><strong>COMMUNICATIONS BUILDING 119</strong></td>
<td><strong>Film/Photography Studies</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10:45-11:05 A.M.</td>
<td>The Aesthetics of Narrative and The Hollywood Dream in Sunset Boulevard</td>
<td>Christa Young, University of West Georgia</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11:05-11:25 A.M.</td>
<td>“Transfixed By Gender: Framing Rosa Bonheur Within a Transgender Narrative”</td>
<td>Taylor Husford, University of North Texas</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11:25-11:45 A.M.</td>
<td>Conflicting Paradigms of Masculinity in the Political Propaganda of the Spanish Civil War and the Early Franco Régime, 1936-1945</td>
<td>Daniel Collins, Messiah College</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10:45-11:05 A.M.</td>
<td><strong>COMMUNICATIONS BUILDING 203</strong></td>
<td><strong>Music</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10:45-11:05 A.M.</td>
<td>“The Octovore”: Homophobia in the Antebellum American South</td>
<td>Dylan Carter, Kennesaw State University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11:05-11:25 A.M.</td>
<td>Art of the Grotesque</td>
<td>Mallory Biller, Westmoreland County Community College</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11:25-11:45 A.M.</td>
<td>Un/Canonical Blueshows</td>
<td>Abigail Ramshottom, Stetson University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10:45-11:05 A.M.</td>
<td><strong>COMMUNICATIONS BUILDING 204</strong></td>
<td><strong>Music</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10:45-11:05 A.M.</td>
<td>A Streetcar Named Repulsion - The Representation of Sexual Violence in Film</td>
<td>Zachary McMaster, Eastern Washington University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11:05-11:25 A.M.</td>
<td>“I Am Big!”: The Aesthetics of Narrative and The Hollywood Dream in Sunset Boulevard</td>
<td>Christa Young, University of West Georgia</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11:25-11:45 A.M.</td>
<td>Conflicting Paradigms of Masculinity in the Political Propaganda of the Spanish Civil War and the Early Franco Régime, 1936-1945</td>
<td>Daniel Collins, Messiah College</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10:45-11:05 A.M.</td>
<td><strong>COMMUNICATIONS BUILDING 206</strong></td>
<td><strong>Music</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10:45-11:05 A.M.</td>
<td>“I See You” Engaging Millennials in the Performance and Appreciation of Classical Music</td>
<td>Trevor Weaver, Montana State University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11:25-11:45 A.M.</td>
<td>Art of the Grotesque</td>
<td>Mallory Biller, Westmoreland County Community College</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11:05-11:25 A.M.</td>
<td>Erosion of Muslim Women’s Freedoms in the Abbasid Dynasty</td>
<td>Lydia Perez, Oklahoma State University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11:25-11:45 A.M.</td>
<td>Art of the Grotesque</td>
<td>Mallory Biller, Westmoreland County Community College</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11:05-11:25 A.M.</td>
<td>“Are We There Yet?” Childhood Stories of the Western Trails.</td>
<td>Zoe King, University of Northern Colorado</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11:25-11:45 A.M.</td>
<td>The Birthplace of Texas</td>
<td>Tyler White, San Jacinto College</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Time</td>
<td>Session</td>
<td>Title</td>
<td>Speaker</td>
<td></td>
</tr>
<tr>
<td>------</td>
<td>---------</td>
<td>-------</td>
<td>---------</td>
<td></td>
</tr>
<tr>
<td>11:25-11:45 a.m.</td>
<td>EDUCATION BUILDING 113</td>
<td>Biochemistry</td>
<td>Dr. Abigail Rinestine</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>An Attempt to Synthesize Novel 1,7-Phenanthroline and 4,7-Phenanthroline Ligands</td>
<td>Teagan Duran, Lubbock Christian University</td>
<td></td>
</tr>
<tr>
<td>11:05-11:25 a.m.</td>
<td>EDUCATION BUILDING 206</td>
<td>Business/Finance/Accounting</td>
<td>Dr. Patricia Buntrock</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>An Analysis of the Coverage of Cost Accounting Topics in University Accounting Programs</td>
<td>Tam Cao, University of Central Oklahoma</td>
<td></td>
</tr>
<tr>
<td>11:25-11:45 a.m.</td>
<td>EDUCATION BUILDING 208</td>
<td>Health Sciences &amp; Public Health</td>
<td>Dr. Hayley Manno</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Social Determinants of Health for the Hispanic Population in Charlotte, NC</td>
<td>Erica Chertan, University of North Carolina, Charlotte</td>
<td></td>
</tr>
<tr>
<td>10:45-11:05 a.m.</td>
<td>EDUCATION BUILDING 203</td>
<td>Engineering/Engineering Technology</td>
<td>Dr. Brian Arnold</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Investigating Mechanochemical Effects in Deformation of Metals and Alloys</td>
<td>Brian Arnold, University of West Florida</td>
<td></td>
</tr>
<tr>
<td>11:05-11:25 a.m.</td>
<td>EDUCATION BUILDING 204</td>
<td>Health Sciences &amp; Public Health</td>
<td>Dr. Elizabeth Rodriguez</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>A Holistic Approach to Admissions in a Physician Assistant Program</td>
<td>Cannon Hanebuth, University of Kentucky</td>
<td></td>
</tr>
<tr>
<td>11:25-11:45 a.m.</td>
<td>EDUCATION BUILDING 111</td>
<td>Communication Sciences &amp; Disorders</td>
<td>Dr. Spencer Hong</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Bilingualism Through the Eyes of Adult Professionals</td>
<td>Vanessa Gonzalez, Abilene Christian University</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Does Familiarity with a Talker’s Voice Facilitate Speech Intelligibility in Noise?</td>
<td>Madison Buntrock, Utah State University</td>
<td></td>
</tr>
<tr>
<td>10:45-11:05 a.m.</td>
<td>EDUCATION BUILDING 210</td>
<td>Engineering/Engineering Technology</td>
<td>Dr. Trenton Black</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Optimization of World’s Fastest Microfluidic PCR System</td>
<td>Hayden Brady, University of Utah</td>
<td></td>
</tr>
<tr>
<td>11:05-11:25 a.m.</td>
<td>EDUCATION BUILDING 214</td>
<td>Biology</td>
<td>Dr. Zach Ward</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>The Regulatory Role of YDJ1/HDJ2 on Ribonucleotide Reductase</td>
<td>Michael Anderson, University of North Carolina, Charlotte</td>
<td></td>
</tr>
<tr>
<td>11:25-11:45 a.m.</td>
<td>EDUCATION BUILDING 301</td>
<td>Chemistry</td>
<td>Dr. Mary Hagle</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Green Synthesis and Analysis of Potential Antibacterial Copper Nanoparticles</td>
<td>Mary Hagle, Gannon University</td>
<td></td>
</tr>
</tbody>
</table>

**COMMUNICATIONS BUILDING 211**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:25-11:45 a.m.</td>
<td>Theatre/Drama</td>
<td>Acting Like A Woman: Patriarchy and the Performance of The Female Athlete</td>
<td>Latausha Carter, Kennesaw State University</td>
</tr>
<tr>
<td>11:05-11:25 a.m.</td>
<td>Education Building 106</td>
<td>Chemical Engineering</td>
<td>Dr. Jeremy Fiteau</td>
</tr>
<tr>
<td></td>
<td></td>
<td>A Novel Approach to Characterizing Monoclonal Antibody Aggregates Using NIST RM 8671</td>
<td>Jeremy Fiteau, Worcester Polytechnic Institute</td>
</tr>
<tr>
<td>11:05-11:25 a.m.</td>
<td>Education Building 108</td>
<td>Chemistry</td>
<td>Dr. Wayne McCracken</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Antibacterial Copper Nanoparticles</td>
<td>Wayne McCracken, University of Wisconsin-Madison</td>
</tr>
<tr>
<td>11:25-11:45 a.m.</td>
<td>Education Building 203</td>
<td>Engineering/Engineering Technology</td>
<td>Dr. Taylor Olin</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Investigating Mechanochemical Effects in Deformation of Metals and Alloys</td>
<td>Taylor Olin, St. Catherine University</td>
</tr>
</tbody>
</table>

**COMMUNICATIONS BUILDING 211**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:25-11:45 a.m.</td>
<td>Theatre/Drama</td>
<td>Acting Like A Woman: Patriarchy and the Performance of The Female Athlete</td>
<td>Latausha Carter, Kennesaw State University</td>
</tr>
<tr>
<td>11:05-11:25 a.m.</td>
<td>Education Building 106</td>
<td>Chemical Engineering</td>
<td>Dr. Jeremy Fiteau</td>
</tr>
<tr>
<td></td>
<td></td>
<td>A Novel Approach to Characterizing Monoclonal Antibody Aggregates Using NIST RM 8671</td>
<td>Jeremy Fiteau, Worcester Polytechnic Institute</td>
</tr>
<tr>
<td>11:05-11:25 a.m.</td>
<td>Education Building 108</td>
<td>Chemistry</td>
<td>Dr. Wayne McCracken</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Antibacterial Copper Nanoparticles</td>
<td>Wayne McCracken, University of Wisconsin-Madison</td>
</tr>
<tr>
<td>11:25-11:45 a.m.</td>
<td>Education Building 203</td>
<td>Engineering/Engineering Technology</td>
<td>Dr. Taylor Olin</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Investigating Mechanochemical Effects in Deformation of Metals and Alloys</td>
<td>Taylor Olin, St. Catherine University</td>
</tr>
</tbody>
</table>
STUDENT ORAL SESSION 1 - THU 10:45AM-11:45AM

11:25-11:45 a.m.
Baseline Biodiversity of the Terrestrial and Aquatic Biota in an Undisturbed Hardwood Forest Slated for Road Construction
Sarah Edmonds, William Peace University

EDUCATION BUILDING 304
Economics
10:45-11:05 a.m.
The Impact of Aircrash on the Aviation Industry
Ngog Niha Nguimbous, Jacksonville University

11:05-11:25 a.m.
What Makes a Soccer Player Expensive? Analyzing the Transfer Activity of the Richest Soccer Teams
Lukas Babuscan, Augsburg College

11:25-11:45 a.m.
An Experimental Study in Zero and Negative Prices: Replications and New Evidence
Christopher Smith, University of Wisconsin - Oshkosh

EDUCATION BUILDING 306
Physics
10:45-11:05 a.m.
A Physics Approach to Modeling Nonlinear Human Population Growth
Cole Prather, University of Central Oklahoma

11:05-11:25 a.m.
Beta Cepheid Variable Stars: A Spectral Analysis
Sarah Hall, The University of Virginia's College at Wise

EDUCATION BUILDING 310
Law & Legal Studies
10:45-11:05 a.m.
A Legal Analysis of Masterpiece Cakeshop V. Colorado Civil Rights Commission
Edward Passero, Ithaca College

11:25-11:45 a.m.
An Examination of the European Union’s Use of Lawfare Since 2001
Morgan Harris, American University

EDUCATION BUILDING 311
Biology
10:45-11:05 a.m.
A Meta-analysis of Snake Venom Composition and Antimicrobial Activity
Raeshelle Strobel, The University of Findlay

11:05-11:25 a.m.
A New Beginning for Old Plants: Teachings of a Herbarium Digitization
Amanda Espanza, Augustana College

11:25-11:45 a.m.
Alteration of Embryonic Neuronal Outgrowth Via Modification of Synaptic Receptor
Bria Coulson, University of Northern Iowa

EDUCATION BUILDING 312
Cell & Molecular Biology
10:45-11:05 a.m.
A Bioinformatic Approach to Identify Potential Vaccine Targets Against the Southern Cattle Tick, Rhipicephalus microplus
Caley Thomasson, St. Edward’s University

11:05-11:25 a.m.
A Heterologous Bioconversion Platform for Aromatic Wastes in E. Coli
Matthew Kubis, University of Tennessee at Knoxville

11:25-11:45 a.m.
Age-dependent Endogenous IL-33 Release regulates IL-22 Populations in Naïve Mouse Lungs
Hanjoo Shim, University of British Columbia

NIGH UNIVERSITY CENTER 300
Psychology
10:45-11:05 a.m.
Going Bump in the Night: An Experimental Investigation of the Endorsement of a Sexual Double Standard Among Hypothetical Adults Engaged in Masturbation
Katie Haus, University of Minnesota, Duluth

11:05-11:25 a.m.
An Examination of the European Union’s Use of Lawfare Since 2001
Morgan Harris, American University

11:25-11:45 a.m.
Political Affiliation’s Role in Agreement to Public Policy
Ryan Appleyard, William Peace University

NIGH UNIVERSITY CENTER 312
Women and Gender Studies
11:25-11:45 a.m.
I Am a Boy, I Don’t Want to Be a Girl!: Gender Performance & Transgenderism in Goethe’s Wilhelm Meister’s Years of Apprenticeship
Teddy Scheuerman, University of Rochester

NIGH UNIVERSITY CENTER 314
Computer Science
11:05-11:25 a.m.
801-863-8337
David Ulbrich, Utah Valley University

11:25-11:45 a.m.
I Am a Boy, I Don’t Want to Be a Girl!: Gender Performance & Transgenderism in Goethe’s Wilhelm Meister’s Years of Apprenticeship
Teddy Scheuerman, University of Rochester

NIGH UNIVERSITY CENTER 320B
Sociology
10:45-11:05 a.m.
A Need for Needles: La Crosse County Injection Drug Use and Harm Reduction Strategies
Kristin Reque, University of Wisconsin - La Crosse

11:05-11:25 a.m.
Anxiety Management on Campus: An Evaluation of a Mobile Health Intervention
Alicia Paul, Elon University

11:25-11:45 a.m.
Political Affiliation’s Role in Agreement to Public Policy
Ryan Appleyard, William Peace University

11:05-11:25 a.m.
Political Affiliation’s Role in Agreement to Public Policy
Ryan Appleyard, William Peace University

11:25-11:45 a.m.
A Need for Needles: La Crosse County Injection Drug Use and Harm Reduction Strategies
Kristin Reque, University of Wisconsin - La Crosse

11:05-11:25 a.m.
Political Affiliation’s Role in Agreement to Public Policy
Ryan Appleyard, William Peace University

11:25-11:45 a.m.
A Need for Needles: La Crosse County Injection Drug Use and Harm Reduction Strategies
Kristin Reque, University of Wisconsin - La Crosse
### STUDENT ORAL SESSION 1 - THU 10:45AM-11:45AM

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Presenter</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:25-11:45 a.m.</td>
<td>A Study on the Effects of Opioid Prescription Practices</td>
<td>Alexis Larson</td>
<td>Salisbury University</td>
</tr>
<tr>
<td></td>
<td><strong>OLD NORTH 208 Mathematics</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11:05-11:25 a.m.</td>
<td>Toxoplasma gondii: Its Transfer Between Cats and the Environment</td>
<td>Emily Kelting</td>
<td>University of Central Oklahoma</td>
</tr>
<tr>
<td>11:25-11:45 a.m.</td>
<td>Two Methods for Triangulating Hyperbolic Punctured Spheres</td>
<td>Tucker Feix</td>
<td>Oklahoma State University</td>
</tr>
<tr>
<td></td>
<td><strong>OLD NORTH 211 Astronomy</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10:45-11:05 a.m.</td>
<td>Barsony Acoustic Oscillations - The Study of Large Scale Structure of the Universe</td>
<td>Tri Nguyen</td>
<td>University of Rochester</td>
</tr>
<tr>
<td>11:25-11:45 a.m.</td>
<td>Exploring the Transient Optical Sky with LSST</td>
<td>Jacqueline Blaum</td>
<td>Iowa State University</td>
</tr>
<tr>
<td></td>
<td><strong>OLD NORTH 206 Mathematics</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10:45-11:05 a.m.</td>
<td>Analysis of Partisan Voting in the United States’ Presidential Elections</td>
<td>Josh Lesner</td>
<td>Southern Nazarene University</td>
</tr>
<tr>
<td>11:05-11:25 a.m.</td>
<td>Algorithmic Composition and Analysis of Music Using Sequence Recursions</td>
<td>Carlo Anselmo</td>
<td>Hampden-Sydney College</td>
</tr>
<tr>
<td></td>
<td><strong>OLD NORTH 207 Environmental Studies &amp; Sciences</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10:45-11:05 a.m.</td>
<td>Evaluation of Coated Urea on Sugarcane (Saccharum officinarum)</td>
<td>Mohamed Razack</td>
<td>University of Guyana</td>
</tr>
<tr>
<td>11:25-11:45 a.m.</td>
<td>A Comparative Analysis of Bird/Wildlife Aircraft Strike Hazard (BASH) Programs at Northeast Florida Airports</td>
<td>Maelyn O’Connor</td>
<td>Jacksonville University</td>
</tr>
</tbody>
</table>

### STUDENT ORAL SESSION 2 - THU 1:00PM-2:00PM

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Presenter</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:25-11:45 a.m.</td>
<td>STUDENT ORAL SESSION 2 - THU 1:00PM-2:00PM</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>BUSINESS BUILDING 105 Communications</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12:00-1:00 p.m.</td>
<td>All I Ever Needed: the Chance to Dance. Exploring Dance as a Form of Communication in the Musical a Chorus Line</td>
<td>Emilia Burtle</td>
<td>University of Kentucky</td>
</tr>
<tr>
<td></td>
<td><strong>BUSINESS BUILDING 108 Interdisciplinary Studies</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1:00-1:20 p.m.</td>
<td>“To Check or Not to Check?&quot;: Examining Attachment Anxiety and Avoidance on Social Media</td>
<td>Molly Moller</td>
<td>University of Nebraska at Kearney</td>
</tr>
<tr>
<td>1:20-1:40 p.m.</td>
<td>A Comparative Analysis of Safety: Sherman Park, MKE</td>
<td>Bella Bower</td>
<td>University of Wisconsin - Milwaukee</td>
</tr>
<tr>
<td>1:40-2:00 p.m.</td>
<td>A Nation of Obligated Assimilation: A View on Hispanic Immigration in the United States</td>
<td>William Towery</td>
<td>Western Carolina University</td>
</tr>
<tr>
<td></td>
<td><strong>BUSINESS BUILDING 110 Interdisciplinary Studies</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1:00-1:20 p.m.</td>
<td>Weaving a Sustainable Future: Social Enterprise Partnerships with Female Indigenous Artisans in the Lake Atitlán Region of Guatemala</td>
<td>Rosalyn Kutsch</td>
<td>Fordham University</td>
</tr>
<tr>
<td>1:20-1:40 p.m.</td>
<td>Witch Hunt: Collective Misandry, Valerie Solanas, and Making an Example Out of You</td>
<td>Sidney Lewis</td>
<td>Eastern Kentucky University</td>
</tr>
<tr>
<td></td>
<td><strong>BUSINESS BUILDING 112 Literature</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1:00-1:20 p.m.</td>
<td>“Have My Words Now Driven Away Your Ignorance and Delusion”: Krishna’s Non-at-tached Action and the Assimilative Power of Hinduism in the Bhagavad Gita</td>
<td>Thanh Huynh</td>
<td>University of Central Oklahoma</td>
</tr>
<tr>
<td></td>
<td><strong>BUSINESS BUILDING 125 Literature</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1:00-1:20 p.m.</td>
<td>Lying as Rhetorical Tool to Express Duality in Love Medicine</td>
<td>Anna Dote</td>
<td>University of Central Oklahoma</td>
</tr>
<tr>
<td>1:40-2:00 p.m.</td>
<td>Missing Moral Compass: The Problem of Moral Ambiguity in Young Adult Literature</td>
<td>Sydney Lewis</td>
<td>East Central University</td>
</tr>
<tr>
<td></td>
<td><strong>BUSINESS BUILDING 126 Linguistics</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1:00-1:20 p.m.</td>
<td>Problematic Pronouns and Gender Identity</td>
<td>Joy Cartino</td>
<td>Mississippi St Univ-Shapekoulshons Honors Col</td>
</tr>
<tr>
<td></td>
<td><strong>BUSINESS BUILDING 205 English</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1:20-1:40 p.m.</td>
<td>Every Thing Was a Friend: the Sentimental, Contemplative, and Reminiscent Role of Objects in Jane Austen’s Mansfield Park</td>
<td>Alexandra Martinez</td>
<td>Carthage College</td>
</tr>
</tbody>
</table>
STUDENT ORAL SESSION 2 - THU 1:00PM-2:00PM

1:40-2:00 p.m.
Spirits That Rise Out of the Water: Gender, Place, and Poetry in Dorothy Wordsworth’s Journals
Jasmine Beringer, University of Nebraska at Kearney

BUSINESS BUILDING 211
Political Science
1:00-1:20 p.m.
Citizens Without Rights: How Food Quality in Nursing Homes Affects Quality of Life
Ashlyn Amanda, Corban University

1:40-2:00 p.m.
Consistency on the Bench: Considering Gender and Selection Systems
Alexis Bishop, Susquehanna University

BUSINESS BUILDING 212
Political Science
1:00-1:20 p.m.
Race Crises Through the Decades
Daniella Hernandez, California State University - Long Beach

1:20-1:40 p.m.
Reevaluating the Legal Status of the World’s Oldest Profession
Andrew Holcombe, Corban University

1:40-2:00 p.m.
Religious or Not, Here They Come: The Impact of White Evangelical Protestant Identity on Vote Choice in 2016 United States Presidential Election
Aaron Toep, American University

CENTRE FOR TRANSFORMATIVE LEARNING 101
African American Studies
1:00-1:20 p.m.
Cultural Spaces and Community Empowerment: A Study of the Opening of the Smithsonian National Museum for African American History and Culture (SNMAHC)
Tafari Robertson, Texas State University - San Marcos

1:40-2:00 p.m.
Po Bulshomyi Stakany, Za Rodimuyu Strany (By This Big Cup, for Our Motherland): a Glimpse into Russian Culture Through Traditional Russian Drinks
Joshua Elliott, Hampden-Sydney College

CENTER FOR TRANSFORMATIVE LEARNING 117
History
1:00-1:20 p.m.
“Don’t Overdo the Inbetweenness”: The Relationship Between Popular Print Media, Society, and Teen Girls in the 1950s and 1980s
Yael Tesder, Mercer University

1:20-1:40 p.m.
“Not of the Caucasian Race”: Traversing Racialized Property and Place in 20th Century Cumberland County, PA
David Michael, Messiah College

1:40-2:00 p.m.
“What a Pity She Was Not Born a Man!” How Womanhood Shaped Japanese Literature in the Heian Period
Gail Jansen, Trevecca Nazarene University

CENTER FOR TRANSFORMATIVE LEARNING 108
International Studies
1:00-1:20 p.m.
An Analysis of Today’s Rise of Far-Right Nationalism Through the Critical Feminist Lens
Reba Snyder, State University of New York-Geneseo

1:20-1:40 p.m.
Autocracy’s Tightrope: How Much Education Before It Breaks?
Eleanor Hendren, Virginia Military Institute

1:40-2:00 p.m.
Rahul Ramani, Notre Dame University Of Long Beach

CENTER FOR TRANSFORMATIVE LEARNING 109
International Studies
1:20-1:40 p.m.
Relationship Between Popular Print Media, Society, and Teen Girls in the 1950s and 1980s
Yael Tesder, Mercer University

1:40-2:00 p.m.
How the Dead Kept Living: Mental Illness from the Battlefield to the Homefront in the American Civil War
Kelsey Raymond, Trevecca Nazarene University
STUDENT ORAL SESSION 2 - THU 1:00PM-2:00PM

CENTER FOR TRANSFORMATIVE LEARNING 237

History
1:00-1:20 p.m.
The Cancers That Killed the Confederacy: Southern Unionism, Dissent, and Desertion During the Civil War
Matthew Graybill, Georgia College and State University

1:20-1:40 p.m.
The Chester Mystery Cycle: The Cultural Importance Within a Religious Context
Mason Werth, University of Central Oklahoma

1:40-2:00 p.m.
The CIA and Oversight in the Face of Changing Context: 1966-1989
John Segal, Wheaton College

COMMUNICATIONS BUILDING 105

Art History
1:20-1:40 p.m.
Bailensia and Regional Beauty
Annalisa Giannotti, University of North Texas

COMMUNICATIONS BUILDING 119

Art & Society
1:00-1:20 p.m.
The Weight of the Visual Pun
Marissa Tholen, University of Central Oklahoma

COMMUNICATIONS BUILDING 121

Film/Photography Studies
1:00-1:20 p.m.
Contemporary Stop Motion Animation: Resurrecting a Handmade Form in a Digital Era
Megan McGarvey, University of Wisconsin - Superior

COMMUNICATIONS BUILDING 200

Music
1:00-1:20 p.m.
An Analysis of Bach’s Influence on Mendelssohn
Kathryn Tillis, Jacksonville University

1:40-2:00 p.m.
Chromaticism, Substitution, and the Geometry of Voice-Leading Spaces: An Analysis of Richard Wagner’s “Liebestod” and Art Tatum’s “Tea for Two”
Tanner Cassidy, North Central College

COMMUNICATIONS BUILDING 203

Music
1:40-2:00 p.m.
The Modified “Plan A”: Artistry and Entrepreneurship
Timothy Brewer, University of Michigan

COMMUNICATIONS BUILDING 204

Education
1:00-1:20 p.m.
American Sign Language Comprehension: Does It Rely on Spatial Skills?
Brooke White, Lamar University

1:20-1:40 p.m.
Assessing Role of Visual Note-taking in Large Lecture Classrooms
Noah Garwood, Iowa State University

1:40-2:00 p.m.
The Modified “Plan A”: Artistry and Entrepreneurship
Timothy Brewer, University of Michigan

COMMUNICATIONS BUILDING 206

Education
1:00-1:20 p.m.
Middle School Students’ Perceptions of STEM Preparedness After Participating in an Informal Learning Environment
Chaise Creemens, University of Kentucky

1:40-2:00 p.m.
More Than a Story: How Elementary Teachers Can Use Children’s Literature to Support Children Who Have Adverse Childhood Experiences
Danielle O’Reilly, Dominican University of California

COMMUNICATIONS BUILDING 211

Theatre/Drama
1:00-1:20 p.m.
Gender and Performance in "Marie Antoinette"
Laila Sahit, Luther College

1:20-1:40 p.m.
Haunted Attractions: Terror as a Tool of Theatrical Release
Alexander Hall, The University of Virginia’s College at Wise

EDUCATION BUILDING 106

Chemical Engineering
1:00-1:20 p.m.
Investigating Methods to Reduce Arsenic Content in Brown Rice
Kristen Mikami, Kapi`olani Community College

1:20-1:40 p.m.
Synthesis and Transport of Pt-Iron Oxide Nanodrugs
Olivia George, University of Tennessee at Chattanooga

EDUCATION BUILDING 111

Physical/Occupational Therapy/Speech Language Pathology
1:40-2:00 p.m.
Description and Comparison of Health Behaviors to the Agility T-test and One Mile Run Among Boy Scouts
Elisabeth Bulliner, Oakland University

EDUCATION BUILDING 113

Biochemistry
1:00-1:20 p.m.
Computational Investigation of Biflavonoid Inhibitors of Amyloid Beta Aggregation in Alzheimer’s Disease
Stephen Plasmeyer, Truman State University
STUDENT ORAL SESSION 2 - THU 1:00PM-2:00PM

EDUCATION BUILDING 206
Business/Finance/Accounting
1:00:1:20 p.m.
Click and Consume: Implementation Strategies for Success in E-commerce
Corinne Sherry, Salisbury University

EDUCATION BUILDING 208
Health Sciences & Public Health
1:00:1:20 p.m.
Prevalence of and Risk Factors for Food Insecurity Among Undergraduate Students in Western Oklahoma
Kathryn Rodgers, Southwestern Oklahoma State University

1:20:1:40 p.m.
A Self-contained Distributed Sensing System for Swarm Robotics
Ian Miller, Lafayette College

1:40:2:00 p.m.
A Study on the Spatial Variation in Heart Valve Mechanical Properties and Microstructure
Samuel Jett, University of Oklahoma Norman Campus

EDUCATION BUILDING 209
Computational Investigation of Potential Inhibitors to HIV’s Viral Infectivity Factor
John Bickel, Truman State University

Crystal Structure of the Outer Mitochondrial Membrane Protein MitoNEET in Complex with Furosemide
Raisa Nuñez, West Virginia University

EDUCATION BUILDING 210
Engineering/Engineering Technology
1:00:1:20 p.m.
Monte Carlo Gamma Ray Simulation of Variable Physical Parameters of a Tungsten-Based Pinhole Camera for Pre-Prototype Optimization
Michael Jerrell, Kennesaw State University

1:40:2:00 p.m.
Novel Vibratory Mechanism Designs for Vibrations and Controls Laboratories
Kevin Van Der Horn, Kennesaw State University

EDUCATION BUILDING 214
Biology
1:20:1:40 p.m.
Investigation of the Distribution and Occupancy of the American Pika (Ochotona princeps) of Southwest Montana in Relation to Potential Climate Changes
Megan Robinson, Montana State University Bozeman

EDUCATION BUILDING 204
Health Sciences & Public Health
1:00:1:20 p.m.
Antigenic Map of Children’s Immunity to Influenza
Raduna Sonnava, University of Michigan

1:20:1:40 p.m.
Application of an External Interception Device to Enhance Radiation Therapy Beam Delivery to Target Sites
Kushnanan Harnarine, University of Guyana

EDUCATION BUILDING 205
Chemistry
1:00:1:20 p.m.
The Synthesis and Characterization of the Functionalized Metal-Ligand Complex, [Co(4-brbpy)3]3+
Ronnie Keller, University of North Carolina - Asheville

1:20:1:40 p.m.
Antioxidant Capacity of Green Tea
Gabrielle Blevins, City University of New York- Guttman Community College

EDUCATION BUILDING 207
Ecology & Organismal Biology
1:00:1:20 p.m.
Bat Species Composition and Diversity on Private Property in the Ellett Valley of Montgomery County, Virginia
Ken Ellingsen, University of Wisconsin - Eau Claire

1:40:2:00 p.m.
Additive Manufacturing and Advanced Composites Integrated Wheel
Josiah Goodley, Metropolitan State University of Denver

EDUCATION BUILDING 301
Chemistry
1:00:1:20 p.m.
The Synthesis and Characterization of the Functionalized Metal-Ligand Complex, [Co(4-brbpy)3]3+
Ronnie Keller, University of North Carolina - Asheville

1:20:1:40 p.m.
Antioxidant Capacity of Green Tea
Gabrielle Blevins, City University of New York- Guttman Community College

EDUCATION BUILDING 211
Engineering/Engineering Technology
1:00:1:20 p.m.
A Self-contained Distributed Sensing System for Swarm Robotics
Ian Miller, Lafayette College

1:20:1:40 p.m.
A Study on the Spatial Variation in Heart Valve Mechanical Properties and Microstructure
Samuel Jett, University of Oklahoma Norman Campus

EDUCATION BUILDING 213
Biology
1:20:1:40 p.m.
Investigation of the Distribution and Occupancy of the American Pika (Ochotona princeps) of Southwest Montana in Relation to Potential Climate Changes
Megan Robinson, Montana State University Bozeman

EDUCATION BUILDING 304
Economics
1:00:1:20 p.m.
Are Chinese Happy: Evidence from WVS
Zhao Yang, University of Wisconsin - Eau Claire

1:20:1:40 p.m.
Childhood Poverty and Educational Outcomes: Case Studies of India, Ethiopia, Peru, and Vietnam
Phillip Hoeps, Eastern Connecticut State University

1:40:2:00 p.m.
Childhood Stunting and Dietary Diversity in Rwanda
Ravon Bonds, University of Wisconsin - Whitewater

EDUCATION BUILDING 306
Physics
1:00:1:20 p.m.
Computational Study of the Surface Stability of Li3BN2/Li8N2 and Li3AlN2/AlN2 as Cathode Materials for Lithium Ion Batteries
Ken Ellingsen, University of Wisconsin - Eau Claire
1:40-2:00 p.m.
Design and Implementation of Microfluidic Devices by the Pipel-Embosed Method for the Analytical Isolation of Yeast Cells and Sorting of Microspheres
Crystal Lemus, Belmont University

EDUCATION BUILDING 308
Electrical Engineering
1:00-1:20 p.m.
A New Method for the Composition of Complex Stochastic Petri Nets
Bradley Ruppa, Milwaukee School of Engineering

1:20-1:40 p.m.
Connected Smart Trash Can for Smart Cities
Mohamed Rishad Abdul Samad, University of Central Oklahoma

EDUCATION BUILDING 312
Cell & Molecular Biology
1:00-1:20 p.m.
Alpha A Crystallin (66-80) Peptide Enters Cultured Human Lens Epithelial Cells and Binds to Alpha A Crystallin
Annika Grupp, Oakland University

1:20-1:40 p.m.
Assessment of Genotypic Diversity Across Mexican Populations of Myriopteris lindheimeri
Blake Fauske, University of Minnesota, Duluth

NIGH UNIVERSITY CENTER 300
Psychology
1:00-1:20 p.m.
Comparing the Effects on How South Asian Women Are Portrayed in American and South Asian Movies
Ruchica Chandnani, University of Michigan

1:20-1:40 p.m.
Evaluation of the Psychology Program
Cassidy McKnight, University of Central Oklahoma

NIGH UNIVERSITY CENTER 304
Psychology
1:00-1:20 p.m.
Defending Your Religion: A Study in Defensive Theology
Jessica Cornelius, Southern Nazarene University

1:40-2:00 p.m.
Comparing Attitudes Towards Physically Disabled Individuals in Private and in Public Conditions
Katherine Shaw, Westminster College

1:40-2:00 p.m.
An Examination of Test Anxiety, Emotion Regulation, and Drug Use in College Students
Jesse Edmond, Kennesaw State University

NIGH UNIVERSITY CENTER 312
Women and Gender Studies
1:20-1:40 p.m.
“Crying in the Dark”: Gender Reinforcement and Sexualization in Halloween Costumes
Juliene Porciuncula, Cerritos College

1:40-2:00 p.m.
“My O’You Must Never Part”: Analyzing Race and Sexuality in the Movie “The Color Purple
Brittany Plange, University of Oklahoma Norman Campus

NIGH UNIVERSITY CENTER 314
Computer Science
1:00-1:20 p.m.
A Theoretical and Empirical Comparison of Various Machine Learning Algorithms for Natural Language Processing
Benjamin Jafek, Brigham Young University

1:20-1:40 p.m.
Analysis and Applications of a Generalized Bellman-Ford Algorithm
Owen McGrath, University of Kentucky

NIGH UNIVERSITY CENTER 320B
Sociology
1:00-1:20 p.m.
Abstract Title: Self-Care as Social Activism: An Examination of Self-Care in Racial Justice Activism
Megan Stehula, Hamline University

1:20-1:40 p.m.
Addressing the Rhetoric of Sexual Abuse Against Black Males Within the Academy
Jordan Brosles, University of Central Oklahoma

1:40-2:00 p.m.
American Mormon: A Case Study in Value Priorities
Jodi Shegrud, Weber State University
STUDENT ORAL SESSION 2 - THU 1:00PM-2:00PM

Criminology/Criminal Justice
1:00-1:20 p.m.
Disproportionate Minority Contact in Policing: Where Does the Bias Lie?
Carrie Stone, Weber State University

1:20-1:40 p.m.
Education Is Rehabilitation
Rashelle Noncent, University of Massachusetts-Dartmouth

1:40-2:00 p.m.
Exposing Capital Punishment
Dominique Malone, University of Tennessee at Chattanooga

OLD NORTH 205
Sustainability
1:20-1:40 p.m.
Green Is the New Black: Sustainability and the Next Generation of Fashion
Lauren Bell, Albright College

1:40-2:00 p.m.
Market Outlook for 3D Printing for Mass Production in Apparel Design
Lillia Dean, Texas Woman’s University

OLD NORTH 207
Environmental Studies & Sciences
1:20-1:40 p.m.
A Comparative Study of the Use of Chrysopogon zizanioides (Vetiver Grass) and Spartina alterniflora (Spartina Grass) in Facilitating Natural Regeneration of Mangroves
Nkasse Evans, University of Guyana

OLD NORTH 208
Mathematics
1:20-1:40 p.m.
Weather You Like It or Not (An Analysis of Weather Data)
Jolli Khoo, Hendrix College

1:40-2:00 p.m.
Study of IC 443: An Extended Source in the Galactic Plane
Jacqueline Blaum, Iowa State University

STUDENT ORAL SESSION 3 - THU 2:20PM-3:20PM

BUSINESS BUILDING 105
Communications
2:40-3:00 p.m.
Discovering the Empowerment in the Simultaneous Use of Language Varieties in Appalachian Homes
Lauren Rentz, The University of Virginia’s College at Wise

3:00-3:20 p.m.
En Marche: Aristotelian Analysis of Emmanuel Macron’s Tweets
Florrie McCard, Georgia College and State University

BUSINESS BUILDING 108
Interdisciplinary Studies
2:20-2:40 p.m.
A Novel Method of Utilizing Convolution Neural Networks to Vectorize Input Tensors for Machine Learning Detection of Retinal Disease
Venkata Macha, Harvard

3:00-3:20 p.m.
An Exploration of Different Museum Exhibit Styles: A Review of Visitors’ Self-Reported Engagement & Dwell Time
Karissa Dobson, North Central College

BUSINESS BUILDING 110
Philosophy & Ethics
2:20-2:40 p.m.
“Is Math Real? ” A Critical Examination of Mathematical Realism and Nominalism
Zeng Zeng Yang, Moravian College

3:00-3:20 p.m.
A Beauvoirian Analysis For the Reform of Social Structures Via the Black Lives Matter Movement
Alison Russell, Western Carolina University

BUSINESS BUILDING 112
Literature
2:20-2:40 p.m.
“They Weren’t Counting on Bears” and Other Tales from Space Australia: An Analysis of SF on Tumblr
Jessica Allmon, Cameron University

3:00-3:20 p.m.
Alice’s Adventure in Maturity
Emily Tabor, State University of New York-Brockport

BUSINESS BUILDING 125
Literature
3:00-3:20 p.m.
Power Lines: The York Road in “Mason & Dixon”
Hunter Flynn, Loyola University Maryland

BUSINESS BUILDING 126
Linguistics
2:20-2:40 p.m.
Speech Variability Across Talkers And Accents
Ruolan Li, University of Rochester
STUDENT ORAL SESSION 3 - THU 2:20PM-3:20PM

BUSINESS BUILDING 205
English
2:20-2:40 p.m.
'Some Lines of Feeling': the Affective, Reflective, and Emotional Properties of Text in Jane Austen's Persuasion
Racheal Treadway, Carthage College

2:40-3:00 p.m.
(Dis)placing the Canon: William Wordsworth and Slam Poetry
Carly Laird, Messiah College

BUSINESS BUILDING 209
English
2:40-3:00 p.m.
The Phonological Evolution and Development of Old Occitan
Thomas Wiegand, University of Tennessee at Chattanooga

3:00-3:20 p.m.
The Role of Lexical Cues in the Acquisition of L2 Allophonic Variants
Joselyn Rodriguez, University of Utah

3:00-3:20 p.m.
The Black Woman’s Privilege: An Examination of Nella Larsen’s Passing
Alexis Daniels, William Peace University

BUSINESS BUILDING 210
English
2:20-2:40 p.m.
The Suspended Landscape: Celan’s Spatial Trauma and the Poetic Abyss
Domenic Suntrapak, University of the Pacific

2:40-3:00 p.m.
The Virgin’s Euphony: A Literary and Musical Analysis of William Blake’s The Book of Thel
Coco Rich, Muhlenberg College

3:00-3:20 p.m.
Chinese Youth’s Attitudes About Wealth and Poverty: A Case Study in Hangzhou, China
Tarik Johnson, Long Island University

BUSINESS BUILDING 211
Political Science
2:40-3:00 p.m.
Parental Psychological Control and Identity Formation of Lily Bart in Edith Wharton’s House of Mirth
Alison Bartak, Hamline University

2:40-3:00 p.m.
Democracy and Military Expenditures
Michael Muller, Georgia College and State University

3:00-3:20 p.m.
Building Confidence Through Chords: The Benefits of Music Instruction for Stateless Hill-Tribe Youth in Chiang Mai, Thailand
Maya Bensalem, Long Island University

BUSINESS BUILDING 212
Political Science
2:40-3:00 p.m.
Effective Sincerity: On Catholic Private Prayer and the Poetry of Mary Karr
Emily Neuharth, Valparaiso University

3:00-3:20 p.m.
Chinese Youth’s Attitudes About Wealth and Poverty: A Case Study in Hangzhou, China
Tarik Johnson, Long Island University

CENTER FOR TRANSFORMATIVE LEARNING 108
International Studies
2:20-2:40 p.m.
Beyond the Economy: The Socio-Cultural Impacts of Chinese Immigrants in Kenya
Ruti Ejangue, American University

2:40-3:00 p.m.
Building Confidence Through Chords: The Benefits of Music Instruction for Stateless Hill-Tribe Youth in Chiang Mai, Thailand
Maya Bensalem, Long Island University

3:00-3:20 p.m.
Iran and Nuclear Energy: A Plan for Peace
Makenzie Briscoe, University of Central Oklahoma
### STUDENT ORAL SESSION 3 - THU 2:20PM-3:20PM

| 2:40-3:00 p.m. | Justice and Stability: Nizam Al-Mulk’s and Al-Mawardi’s Ideal Governments  
Jonathan Reiswig, University of Central Oklahoma |
|----------------|--------------------------------------------------------------------------------|
| 3:00-3:20 p.m. | Juveniles and Crime: Reforming Children of Nineteenth-Century England  
Taylor Wise, Trevecca Nazarene University |

### CENTER FOR TRANSFORMATIVE LEARNING 237

| 2:20-2:40 p.m. | The Controversial Passage of Proposition 227  
Erin Kinney, Hamline University |
|----------------|--------------------------------------------------------------------------------|
| 2:40-3:00 p.m. | The Intersection of Greek and Egyptian Mythology in “The Story of the Greek Princess”  
Ashley Huizinga, Dordt College |
| 3:00-3:20 p.m. | The Left’s Search For Rights  
Tiffany Grochowsky, Rose State College |

### CENTER FOR TRANSFORMATIVE LEARNING 239

| 2:20-2:40 p.m. | Islam in China: The Hui and Uyghur Divide  
Katie Mollette, University of Kentucky |
|----------------|--------------------------------------------------------------------------------|
| 3:00-3:20 p.m. | Shifting Categories: Religious, Spiritual, Secular Modern Yoga  
Anya Fredwell, Elon University |

| 2:40-3:00 p.m. | Birth of First Graphic Design Institution in Zimbabwe, Africa  
Mi’ Leah Lyons, University of Central Oklahoma |
|----------------|--------------------------------------------------------------------------------|
| 3:00-3:20 p.m. | Defining the Spiritual in Art  
Nolan Havig, California State University - Long Beach |

| 2:40-3:00 p.m. | The Poetry of Heinrich Heine and the German Lied  
William Ballard, Appalachian State University |
|----------------|--------------------------------------------------------------------------------|
| 3:00-3:20 p.m. | The 1/8th Rule: An Exploration of Race, Sex, and Dion Boucicault’s The Octoroon  
Truman Griffin, Kennesaw State University |

| 2:40-3:00 p.m. | Composing from an Image  
Maya Jones, Eastern Washington University |
|----------------|--------------------------------------------------------------------------------|
| 3:00-3:20 p.m. | Perceived Influence of Veterans in the Classroom  
Timothy Harper, Southern New Hampshire University |

| 2:40-3:00 p.m. | Undergraduate Research: Chemistry Education Through Augmented Reality  
Karime Abdeljalek, San Jacinto College Honors Program |
|----------------|--------------------------------------------------------------------------------|
| 3:00-3:20 p.m. | Characterizing Food Purchases of Supplemental Nutrition Assistance Program (SNAP) Participants: A Case Study of Grocery Stores in Three Different Wisconsin Metropolitan Areas  
Katelyn Kleutsch, University of Wisconsin - Eau Claire |
| 3:00-3:20 p.m. | Deactivation of Aflatoxin B1 by Chemical Treatment  
Daniel Lockhart, Lubbock Christian University |
STUDENT ORAL SESSION 3 - THU 2:20PM-3:20PM

2:40-3:00 p.m.
Effects of S-nitrosation on Peroxidase Pathways in Brassica Rapa
Aaliyah Grandy, Wells College

Management
2:20-2:40 p.m.
Renewable Energy Market in Southeast Asia: A Case Study on Vietnam
Nhí Tran, University of North Carolina - Asheville

EDUCATION BUILDING 208
Health Sciences & Public Health
2:40-3:00 p.m.
Qualitative Needs Assessment of Health Care in Ghana, Africa
Paige Baustert, Grand Valley State University

3:00-3:20 p.m.
Quality Review of Glucocorticoid-Induced Osteoporosis Screening in Lupus Patients
Ann Marie O’Connell, Concordia College - Moorhead

EDUCATION BUILDING 210
Engineering/Engineering Technology
2:20-2:40 p.m.
Operation of Unmanned Aerial Vehicle (UAV) For the Measurement of Angle of Attack and Sid LAS Angle
Fevens Louis Jean, Embry - Riddle Aeronautical University

3:00-3:20 p.m.
Automation of a Gear/Chain Based Transmission
James Ivey, Midwestern State University

EDUCATION BUILDING 214
Biology
2:20-2:40 p.m.
Manipulation of the Gut Microbiome Modifies Expression of Colorectal Cancer Cells
Camilla Cascardo, Wayne State University

2:40-3:00 p.m.
Metagenomics of Microbial Communities in Acid Mine Drainage
Rachel Last, Simpson University

EDUCATION BUILDING 301
Chemistry
2:20-2:40 p.m.
C-N Bond Cleavage in Nitrosoalkanes Mediated by Heme Models
Sylwia Giza, University of Oklahoma Norman Campus

3:00-3:20 p.m.
Characterization and Inhibition of Asphaltene Aggregation
Kathryn Humphries, Truman State University

EDUCATION BUILDING 302
Ecology & Organismal Biology
2:20-2:40 p.m.
Effect of Soil Biotica Presence and Absence on Lathyrus japonicus Germination, Growth, and Dry Biomass
Rachel Sims, Valparaiso University

3:00-3:20 p.m.
Effects of Ectoparasites on Survivorship and Reproduction of Peromyscus Leucopus
Stephanie Dea, Albright College

EDUCATION BUILDING 304
Economics
2:20-2:40 p.m.
Civic Fermentation
Amber Georgakopoulos, University of Wisconsin - Stout

3:00-3:20 p.m.
Competitive Airline Ticket Pricing Strategies
Thuy Josephs, Jacksonville University

EDUCATION BUILDING 306
Physics
2:20-2:40 p.m.
Gravity After Einstein: Developing A Model To Analyze The Distance To The Moon
Dagmawit Assefa, Wellesley College

3:00-3:20 p.m.
Influence of Surface Morphology on the Contact Angle of Zinc Oxide Nanostructures
Jennifer Burleson, University of Tulsa

EDUCATION BUILDING 308
Electrical Engineering
2:20-2:40 p.m.
A New Method for the Decomposition of Stochastic Petri Nets
Anthony Zinos, Milwaukee School of Engineering

3:00-3:20 p.m.
Design and Fabrication of a Low-cost Large-area Solar Module Characterization System
Lakota Griffis, Kennesaw State University
STUDENT ORAL SESSION 3 - THU 2:20PM-3:20PM

EDUCATION BUILDING 310
Law & Legal Studies
2:20-2:40 p.m.
Over-Due Process: Federalism, Selective Incorporation, and the Warren Court
Sarah Warren, Florida State University

2:40-3:00 p.m.
Should Patents or Exclusions Be Allowed on Pharmaceutical Drugs Which Would Prohibit the Engineering of Biosimilar Medicine?
Julia Bates, Ithaca College

3:00-3:20 p.m.
Educating the Next Generation of Lawyers: The Impact of Simulations on Student Learning
Sarah Lipps, Augustana College

EDUCATION BUILDING 311
Biology
2:20-2:40 p.m.
Assessing the Biodiversity of the Microscopic Moss Forests of Rock Island County (IL)
Sarah Lipps, Augustana College

2:40-3:00 p.m.
Assessment of Seasonal Variation in Amphibian Infectious Diseases in Central Oklahoma
Sierra Smith, University of Oklahoma Norman Campus

3:00-3:20 p.m.
Characterization of the Progamic Phase in Ruppia Maritima
Dayton Oki, Creighton University

EDUCATION BUILDING 312
Cell & Molecular Biology
2:20-2:40 p.m.
Cell Separations: the Christmas Story You Haven’t Heard
Kelly Goode, NC State University

2:40-3:00 p.m.
Characterization of Midkine-a (Mdk-a) Function During Caudal Fin and Retinal Regeneration in Adult Zebrafish
Nicholas Ang, Wayne State University

3:00-3:20 p.m.
Characterization of the Wnt Signaling Pathway in Calcific Aortic Valve Disease
Andrea Dunap, Ashbury University

NIGH UNIVERSITY CENTER 300
Psychology
2:20-2:40 p.m.
The Effects of Incentive on Sustained Attention Among Adults High and Low in ADHD-like Symptoms
Emily Connell, Westminster College

2:40-3:00 p.m.
Examining Resiliency and Life Satisfaction In College Students
Hannah Richards, College of St Scholastica

3:00-3:20 p.m.
Psychodermatology: Assessing Interactions Between the Skin and Mind
Jolene Sysak, Brooklyn College

NIGH UNIVERSITY CENTER 301
Social Work
2:40-3:00 p.m.
Conceptualizing Allyship as an Actionable Construct in Higher Education
Shannon Radford, Bridgewater State University

3:00-3:20 p.m.
Quantitative and Qualitative Analysis of Peer-Delivered Gatekeeper Program’s Impact
Sophia Thoen, University of Wisconsin - Eau Claire

NIGH UNIVERSITY CENTER 304
Psychology
2:20-2:40 p.m.
Psychodermatology: Assessing Interactions Between the Skin and Mind
Jolene Sysak, Brooklyn College

2:40-3:00 p.m.
Blanket Inoculation of Attitudes
Hawa Conteh, Iowa State University

3:00-3:20 p.m.
A Comparison of Domestic Violence Policy in the U.S. and Spain
Brendan Bialy, State University of New York-Brockport

NIGH UNIVERSITY CENTER 312
Women and Gender Studies
2:20-2:40 p.m.
A Comparison of Domestic Violence Policy in the U.S. and Spain
Brendan Bialy, State University of New York-Brockport

2:40-3:00 p.m.
Examining Resiliency and Life Satisfaction In College Students
Hannah Richards, College of St Scholastica

3:00-3:20 p.m.
Abstract: From Mustache to Manicure: The Evolving Role of Witches in Entertainment
Ashlyn Sparks, Jacksonville University

NIGH UNIVERSITY CENTER 314
Computer Science
2:20-2:40 p.m.
Application of Three-Dimensional Modeling and Machine Learning to Classifying Ancient West Mexican Ceramic Figures
Alfredo Velasco II, University of Tulsa

2:40-3:00 p.m.
Automated Course Advising System ACAS for Philander Smith College
D’Marco Griffin, Philander Smith College

3:00-3:20 p.m.
Beamforming with Neural Networks
Oleksandr Loyko, City University of New York-Brooklyn College

OLD NORTH 205
Sustainability
2:40-3:00 p.m.
Nudging Away from Plastic Bag Use Through a Donation Program in University Convenience Stores
Josey Moore, University of Kentucky

3:00-3:20 p.m.
Social-Ecological Dynamics of Pollinators and Pastoralists in Simanjiro, Tanzania
Hannah Dressing, Colorado State - Colorado State University- Cooperative Extension- Jefferson Co
STUDENT ORAL SESSION 3 - THU 2:20PM-3:20PM

OLD NORTH 206
Mathematics
2:20-2:40 p.m.
Chordal Inverses of Functions
Lawrence Dongilli, University of Central Oklahoma

3:00-3:20 p.m.
Classifying Eisenstein Polynomials of Degree
2
Nicholas Hadjis, Elon University

OLD NORTH 207
Environmental Studies & Sciences
2:40-3:00 p.m.
Benthic Macroinvertebrates as Biological Indicators of the Cache La Poudre River
Katie Dorman, University of Northern Colorado

3:00-3:20 p.m.
Characterizing Problematic Plants in the Drylands of Tanzania
Connor McCarty, Colorado State - Colorado State University - Cooperative Extension - Jefferson Co

OLD NORTH 208
Neuroscience
3:00-3:20 p.m.
A History of Enriching Experiences Alters the Impact of a Single Exposure to Enrichment on Hippocampal Neurons
Samara Santiago, Appalachian State University

OLD NORTH 211
Astronomy
2:20-2:40 p.m.
Orbiting Extragalactic Bodies and the Evolution of Exponential Profiles in Galactic Disks
Alexander Criswell, Iowa State University

STUDENT ORAL SESSION 4 - THU 3:40PM-4:40PM

BUSINESS BUILDING 105
Communications
3:40-4:00 p.m.
Feminist K-pop Fans and Their Connective Action on Twitter
Yena Lee, University of California, Berkeley

4:20-4:40 p.m.
From Singer to Vocalist: An Exploration of How Jazz Vocalists Establish Authenticity at Jam Sessions
Rachel Tucker, North Central College

BUSINESS BUILDING 108
Interdisciplinary Studies
3:40-4:00 p.m.
Bronze to Iron: Exploring How Different Metals Affect the Overtones of Carillon Bells
David Marshall, University of Rochester

4:00-4:20 p.m.
Building Relationships, Bridging Resources: Mapping a City's Art and Cultural Assets
Layne Cole, Concordia College - Moorhead

4:20-4:40 p.m.
Coding as Classical Scholarship
Virginia Felkner, University of Oklahoma Norman Campus

BUSINESS BUILDING 112
Literature
3:40-4:00 p.m.
Being Ace Is Great Until It Gets You Turned into a Tree: Identifying and Exploring Asexuality in Ovid's Metamorphoses
Ana Paez, Cameron University

4:00-4:20 p.m.
Breaking Down Feminism with “Yellow Woman”
Michelle Rawls, University of Central Oklahoma

4:20-4:40 p.m.
Christian Housewife vs. Individualist Scientist: The Conflicting Themes of “A Wrinkle in Time”
Kimberly Dalton, Roanoke College

BUSINESS BUILDING 110
Philosophy & Ethics
3:40-4:00 p.m.
A Consequentialist Continuum of Environmental Ethics
Zachary Hesse, Juniata College

4:00-4:20 p.m.
Power vs. Power
Kodie Binswanger, University of Central Oklahoma

4:20-4:40 p.m.
Reading Between the Lines: Narrative Style and Feminism in Jeffrey Eugenides’s the Virgin Suicides
Asja Cole, University of Central Oklahoma
**STUDENT ORAL SESSION 4 - THU 3:40PM-4:40PM**

**BUSINESS BUILDING 209**

**English**

3:40-4:00 p.m.

*Picture This: African American Cultural Representation in Children's Literature*

Lindsay Partavina, Eastern Connecticut State University

**4:00-4:20 p.m.**

*Past-Colonial Anxiety And The Fall From Eden*  
In Jean Rhys's Wide Sargasso Sea  
Zoe Timothy, Cameron University

**4:20-4:40 p.m.**

*Pride of a Veteran*  
Dalton Krase, University of Central Oklahoma

**BUSINESS BUILDING 210**

**English**

3:40-4:00 p.m.

*Themes of Sexism and Justice in Trifles*

Tiernan Shaw, Texas Woman's University

**4:20-4:40 p.m.**

*Vengeance Is Ours: Critical Empathy & Safe Spaces in Horror Films*

David Hooker, Bridgewater State University

**BUSINESS BUILDING 211**

**Political Science**

3:40-4:00 p.m.

*The Effects of Race/ Ethnicity and Skin Complexion on Decision-Making: Examining Service Referral, Service Provision, and Placement Decisions for Black Girls in the Child Welfare System*

Lexi Ivers, American University

**4:20-4:40 p.m.**

*The Effect of Immigration on the Culture of Igbo Nigerians in America*

Fortunate Ekwuruke, Brooklyn College

**BUSINESS BUILDING 205**

**English**

3:40-4:00 p.m.

*“Be Valued ‘Gainst Your Wife’s Commandement”: Homosexuality and Marriage in Shakespeare’s The Merchant of Venice*

Mikaela Dalton, Jacksonville University

**4:00-4:20 p.m.**

*“Help the Pakistani Girl!”: How Orientalism Has Impacted Teen Novels of the Twenty-Teens*

Cheyenne Marski, University of Central Oklahoma

**BUSINESS BUILDING 207**

**English**

3:40-4:00 p.m.

*Fake News: Political Satire in the Age of President Trump*

Landon Graham, Utah State University

**4:00-4:20 p.m.**

*Picture This: African American Cultural Representation in Children’s Literature*

Lindsay Partavina, Eastern Connecticut State University

**BUSINESS BUILDING 212**

**Political Science**

3:40-4:00 p.m.

*State Failure and Immigration in Afghanistan*

Farzad Ahmadi, Norwich University

**4:20-4:40 p.m.**

*The 1986 Comprehensive Anti-Apartheid Act*

Nicholas Wooden, University of Central Oklahoma

**BUSINESS BUILDING 210**

**English**

3:40-4:00 p.m.

*Themes of Sexism and Justice in Trifles*

Tiernan Shaw, Texas Woman's University

**4:20-4:40 p.m.**

*Vengeance Is Ours: Critical Empathy & Safe Spaces in Horror Films*

David Hooker, Bridgewater State University

**BUSINESS BUILDING 211**

**Political Science**

3:40-4:00 p.m.

*Dress Codes in the Workplace and the Perceptions of Appearance*

Marlena Mareno, Siena College

**4:00-4:20 p.m.**

*Energy Projects: China's New Diplomatic Tool*

Rebecca Wai, Lafayette College

**CENTER FOR TRANSFORMATIVE LEARNING 109**

**International Studies**

3:40-4:00 p.m.

*Social Inequality Reform in Rural China: A Case Study on Changing Gender Norms With Policy Implementation*

Dakota DelValle, Long Island University

**4:20-4:40 p.m.**

*The Effects of Temporary Protected Status on the Lives of Recipients*

Lauren Fay, American University

**CENTER FOR TRANSFORMATIVE LEARNING 101**

**African American Studies**

3:40-4:00 p.m.

*The Effect of Immigration on the Culture of Igbo Nigerians in America*

Fortunate Ekwuruke, Brooklyn College

**4:20-4:40 p.m.**

*A Professor’s Experience in Indonesia: Examining the Partnership Between University of Kentucky and Bogor Agricultural College 1957-1966*

Adam Murphy, Eastern Connecticut State University

**4:00-4:20 p.m.**

*Abigail Adams and the Power of Correspondence: Exploring Women’s Role During the American Revolution*

Isabel Bustos, Mount St. Mary’s College - Los Angeles

**CENTER FOR TRANSFORMATIVE LEARNING 108**

**International Studies**

3:40-4:00 p.m.

*Kentucky Slavery: The Historiography of Human Property Records*

Andrew Johnson, University of Kentucky

---

124  THE COUNCIL ON UNDERGRADUATE RESEARCH  UNIVERSITY OF CENTRAL OKLAHOMA  125
### STUDENT ORAL SESSION 4 - THU 3:40PM-4:40PM

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Presenter</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>4:00-4:20 p.m.</td>
<td>Local Impact of the Establishment and Preservation of the Buffalo National River</td>
<td>Coplea Donley</td>
<td>John Brown University</td>
</tr>
<tr>
<td>4:20-4:40 p.m.</td>
<td>The History of the Clear Lake Islamic Center</td>
<td>Ameera Mustafa</td>
<td>San Jacinto College Honors Program</td>
</tr>
<tr>
<td>4:00-4:20 p.m.</td>
<td>The Man on the Monument: The Lost Cause and Race Relations in a Southern Small Town</td>
<td>Hayley McCalloch</td>
<td>Appalachian State University</td>
</tr>
<tr>
<td>4:00-4:20 p.m.</td>
<td>Disjunctive Reception of Camilo Egas’s Art in Ecuador and New York City</td>
<td>Gabriela Larkin</td>
<td>George Mason University</td>
</tr>
<tr>
<td>4:00-4:40 p.m.</td>
<td>The New Negro: Its Influence and Contention Within Harlem</td>
<td>Evan Webb</td>
<td>Arkansas Tech University</td>
</tr>
<tr>
<td>4:00-4:20 p.m.</td>
<td>The Body Is the Enemy: Julia Foote’s Experience as a Nineteenth Century African-American Christian Woman</td>
<td>Mortah Reichert</td>
<td>Capital University</td>
</tr>
<tr>
<td>4:00-4:40 p.m.</td>
<td>Darker Planets</td>
<td>Gabriel Tomlin</td>
<td>University of Kentucky</td>
</tr>
<tr>
<td>4:00-4:20 p.m.</td>
<td>Towards a Theory of Museological Recuperation</td>
<td>Kathryn Carney</td>
<td>Virginia Commonwealth University</td>
</tr>
<tr>
<td>4:20-4:40 p.m.</td>
<td>Folk Art and Ancestry: German Jewish Creation Through Time</td>
<td>Amelia Rosenberg</td>
<td>University of North Carolina - Asheville</td>
</tr>
<tr>
<td>4:00-4:40 p.m.</td>
<td>Designing Domestic Violence Awareness</td>
<td>Erik Edelman</td>
<td>State University of New York-Brockport</td>
</tr>
<tr>
<td>4:20-4:40 p.m.</td>
<td>Interaction Is the Future of Graphic Design</td>
<td>Jordyn Richardson</td>
<td>University of Central Oklahoma</td>
</tr>
<tr>
<td>4:20-4:40 p.m.</td>
<td>Vile Heart: A Piece for Trumpet and Electronics</td>
<td>June Aino</td>
<td>Central Connecticut State University</td>
</tr>
<tr>
<td>4:20-4:40 p.m.</td>
<td>Community Super Investigators (CSI) Club: Math and Literacy in Action</td>
<td>Susana Salazar velez</td>
<td>University of Kentucky</td>
</tr>
<tr>
<td>4:20-4:40 p.m.</td>
<td>Conference: Identifying Challenges for Elementary Educators: Implementing the Oklahoma Academic Science Standards NSG Grant Award #1743831</td>
<td>Matthew Bradbury</td>
<td>University of Central Oklahoma</td>
</tr>
<tr>
<td>4:00-4:40 p.m.</td>
<td>Standing and Assessment: A Comparative Analysis of Equitable Composition Processes and Outcomes</td>
<td>Aidan Williams</td>
<td>Missouri State University</td>
</tr>
<tr>
<td>4:20-4:40 p.m.</td>
<td>Stepping Away from Sitting Still: Differentiating Instruction for Children with ADHD</td>
<td>David Peterson</td>
<td>Dominican University of California</td>
</tr>
<tr>
<td>4:00-4:40 p.m.</td>
<td>Women in the Underworld: A Look at the Stones in Sarah Ruhl’s “Eurydice”</td>
<td>Olivia Wells</td>
<td>University of Central Oklahoma</td>
</tr>
<tr>
<td>4:00-4:40 p.m.</td>
<td>Thread City Moment Work</td>
<td>Julia Lettiao</td>
<td>Eastern Connecticut State University</td>
</tr>
<tr>
<td>4:00-4:40 p.m.</td>
<td>An Acute Bout of Exercise Improves Mood Which May Enhance Trust</td>
<td>Sara Brakke</td>
<td>St. Catherine University</td>
</tr>
<tr>
<td>4:00-4:40 p.m.</td>
<td>Athletic Trainer’s Educational Satisfaction and Technique Use Within the Psychosocial Intervention and Referral Content Area</td>
<td>Sungyong Eom</td>
<td>University of the Pacific</td>
</tr>
</tbody>
</table>
4:20-4:40 p.m.
Effects of Maximal Exercise on Working Memory
Evans Mayhan, Georgia College and State University

EDUCATION BUILDING 111
Nutrition
3:40-4:00 p.m.
Tracking the Use of Free Fruit and Vegetable Coupons Given to Families and Assessing the Impact on Children’s Consumption
Nathan Gilger, University of Wisconsin - Eau Claire

4:20-4:40 p.m.
Cola, Candy, and Cake, Oh My! Assessing Consumer Knowledge of Added Sugars
Courtney Vanderheiden, St. Catherine University

EDUCATION BUILDING 113
Biochemistry
3:40-4:00 p.m.
Evaluation of a Nutrition Education Program: Buy Eat Live Healthy’s Suitability and Usefulness to Refugees
Thomata Doe Doe, Iowa State University

4:00-4:20 p.m.
Flotation Tank and Psychological Disorders
Juan Alvarado, University of Tulsa

4:20-4:40 p.m.
Identification of Vaginal Bacterial Species That Are Mutually and Differentially Antagonistic with Strains of Candida albicans
Andrea Prenkovec, Wayne State University

EDUCATION BUILDING 203
Engineering/Engineering Technology
4:00-4:20 p.m.
Parameter Governing Impact and Damage Due to Erosion of Barrier Islands by Hurricanes
Evan Mazzur, University of South Alabama

4:20-4:40 p.m.
Peer Mentoring in Robotics Labs
Laura Delgadoillo, San Jacinto College Honors Program

EDUCATION BUILDING 204
Health Sciences & Public Health
4:00-4:20 p.m.
Attitudes and Perceived Barriers of College Students Regarding Active Commuting to Campus
Keeza Rypien, Eastern Washington University

4:20-4:40 p.m.
Attitudes and Perceived Barriers to Physical Activity Among Tribal Members Living On and Off the Colville Indian Reservation
Alicia Edwards, Eastern Washington University

EDUCATION BUILDING 206
Business/Finance/Accounting
4:20-4:40 p.m.
London King’s Cross
Corey Bornemann, University of Central Oklahoma

EDUCATION BUILDING 208
Health Sciences & Public Health
3:40-4:00 p.m.
Post-Partum Depression Screening in a Community-Based Sample of Mothers Visiting WIC Clinics
Vidhya Balaabrahmanian, University of North Carolina, Charlotte

4:00-4:20 p.m.
Perfect Chronic Skeletal Muscle Regeneration in the African Spiny Mouse (Acomys)
Aaron Sandoval, University of Florida

4:20-4:40 p.m.
Perfect Chronic Skeletal Muscle Regeneration in the African Spiny Mouse (Acomys)
Alicia Edwards, Eastern Washington University

EDUCATION BUILDING 210
Engineering/Engineering Technology
4:20-4:40 p.m.
Characterization of Aliphatic Urethane Shape Memory Polymers for the Treatment of Intracranial Aneurysms
Robert Kunkel, University of Oklahoma Norman Campus

4:20-4:40 p.m.
PCR Validation of Glycoside Hydrolase Families 43 and 44, Coding for Putative Plant Cell Wall Degrading Enzymes, in the Emerald Ash Borer (Agrilus planipennis) Genome
Alison Owusu, University of South Carolina

EDUCATION BUILDING 214
Biology
3:40-4:00 p.m.
Novel Insights into the Subspecies Status of Toxorhynchites rutilus rutilus
Corey Day, Western Carolina University

4:00-4:20 p.m.
Evaluation of a Nutrition Education Program: Buy Eat Live Healthy’s Suitability and Usefulness to Refugees
Thomata Doe Doe, Iowa State University

4:20-4:40 p.m.
Development of a Fatty Acid Methyl Esters (FAME) Assay for Biodiesel by Fourier Transform Infrared Spectroscopy (FT-IR)
Elvin Cabrera, Eastern Washington University

EDUCATION BUILDING 301
Chemistry
3:40-4:00 p.m.
Developing a Sensitive Stripping Voltammetric Method to Detect Lead in Water and Soil
Abigail Praklet, Indiana University at South Bend

4:00-4:20 p.m.
Evaluating Nutrient Cycling and Soil Biological Activity in Crop Rotation
Leanne Maken, Colorado State - Colorado State University- Cooperative Extension- Jefferson Co

4:00-4:20 p.m.
Developing a Sensitive Stripping Voltammetric Method to Detect Lead in Water and Soil
Abigail Praklet, Indiana University at South Bend

4:40-4:40 p.m.
Evaluating Nutrient Cycling and Soil Biological Activity in Crop Rotation
Leanne Maken, Colorado State - Colorado State University- Cooperative Extension- Jefferson Co
<table>
<thead>
<tr>
<th>STUDENT ORAL SESSION 4 - THU 3:40PM-4:40PM</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>EDUCATION BUILDING 304</strong></td>
</tr>
<tr>
<td><strong>Economics</strong></td>
</tr>
<tr>
<td><strong>Disappointment Aversion and Financial Asset Preferences</strong></td>
</tr>
<tr>
<td>Mariah Collier, Pacific Lutheran University</td>
</tr>
<tr>
<td><strong>EDUCATION BUILDING 306</strong></td>
</tr>
<tr>
<td><strong>Physics</strong></td>
</tr>
<tr>
<td><strong>Investigating the Regener-Pfotzer Maximum During a Total Solar Eclipse</strong></td>
</tr>
<tr>
<td>Alynie Walter, St. Catherine University</td>
</tr>
<tr>
<td><strong>EDUCATION BUILDING 308</strong></td>
</tr>
<tr>
<td><strong>Electrical Engineering</strong></td>
</tr>
<tr>
<td><strong>Employing Embedded Systems to Provide Information on Hit and Run Accidents</strong></td>
</tr>
<tr>
<td>Lawrence Mondal, Eastern Washington University</td>
</tr>
<tr>
<td><strong>4:00-4:20 p.m.</strong></td>
</tr>
<tr>
<td><strong>Empowerment of an Electromagnetic Railgun on a M109A6 Paladin Howitzer</strong></td>
</tr>
<tr>
<td>Adam Croteau, Eastern Washington University</td>
</tr>
<tr>
<td><strong>4:20-4:40 p.m.</strong></td>
</tr>
<tr>
<td><strong>Physical Activity Recognition</strong></td>
</tr>
<tr>
<td>Fred Washburn, Jacksonville University</td>
</tr>
<tr>
<td><strong>EDUCATION BUILDING 311</strong></td>
</tr>
<tr>
<td><strong>Biology</strong></td>
</tr>
<tr>
<td><strong>Degeneration of a Nuclear rRNA Group 1 Intron in the Lichen Teloschistes chrysophthalus</strong></td>
</tr>
<tr>
<td>Audrey Codina, University of Nebraska at Kearney</td>
</tr>
<tr>
<td><strong>4:20-4:40 p.m.</strong></td>
</tr>
<tr>
<td><strong>Determining Coyote-Wolf Hybridization in...</strong></td>
</tr>
<tr>
<td><strong>MINNESOTA AND WISCONSIN BY USING THE MITOCHONDRIAL DNA</strong></td>
</tr>
<tr>
<td>Taylor Soto, University of Wisconsin - River Falls</td>
</tr>
<tr>
<td><strong>EDUCATION BUILDING 312</strong></td>
</tr>
<tr>
<td><strong>Cell &amp; Molecular Biology</strong></td>
</tr>
<tr>
<td><strong>Characterizing Lipogems®: Micro-Fragmented Fat for Tissue Regeneration</strong></td>
</tr>
<tr>
<td>Amany Alshibli, University of Tennessee at Knoxville</td>
</tr>
<tr>
<td><strong>4:00-4:20 p.m.</strong></td>
</tr>
<tr>
<td><strong>CXCL1 Regulates Host Immune Response to Streptococcus pneumoniae Induced Pneumonia Via CXCL2</strong></td>
</tr>
<tr>
<td>Joseph DeCorte, Louisiana State University, Baton Rouge</td>
</tr>
<tr>
<td><strong>4:20-4:40 p.m.</strong></td>
</tr>
<tr>
<td><strong>Detection of SLC44A2 Protein in HPV- and HPV’s Cancer Cell Lines Using Whole Cell Lysates and the Co-Precipitation of SLC44A2 with CD81</strong></td>
</tr>
<tr>
<td>Lucy Yang, University of Michigan</td>
</tr>
<tr>
<td><strong>4:00-4:40 p.m.</strong></td>
</tr>
<tr>
<td><strong>Psychology</strong></td>
</tr>
<tr>
<td><strong>The Moderating Effects of Ethnicity and Gender on Ethniccultural Empathy</strong></td>
</tr>
<tr>
<td>Nubia Briones, St. Edward’s University</td>
</tr>
<tr>
<td><strong>4:00-4:40 p.m.</strong></td>
</tr>
<tr>
<td><strong>Examining the Effect of Diet on Mesolimbic Dopamine Release and Psychostimulant Addiction</strong></td>
</tr>
<tr>
<td>Jarrett Bland, University of Memphis</td>
</tr>
<tr>
<td><strong>NIGH UNIVERSITY CENTER 301</strong></td>
</tr>
<tr>
<td><strong>Social Work</strong></td>
</tr>
<tr>
<td><strong>The Field of Mental Health</strong></td>
</tr>
<tr>
<td>Kaitlyn Lindsey, Texas A&amp;M University - Texarkana</td>
</tr>
<tr>
<td><strong>4:00-4:40 p.m.</strong></td>
</tr>
<tr>
<td><strong>Psychology</strong></td>
</tr>
<tr>
<td><strong>Can Priming of Rudeness or Politeness Prompt Rude or Polite Behavior?</strong></td>
</tr>
<tr>
<td>Maryenia Hernandez, North Central College</td>
</tr>
<tr>
<td><strong>4:20-4:40 p.m.</strong></td>
</tr>
<tr>
<td><strong>Acts of Resistance Among Young Muslim Women</strong></td>
</tr>
<tr>
<td>Laya Maloney, Fordham University</td>
</tr>
<tr>
<td><strong>4:00-4:40 p.m.</strong></td>
</tr>
<tr>
<td><strong>Beyond the Veil: Exploring the Many Layers of Muslim Women’s Identity in Nice, France</strong></td>
</tr>
<tr>
<td>Chikondi Kulemeka, St. Mary’s College of Maryland</td>
</tr>
<tr>
<td><strong>4:20-4:40 p.m.</strong></td>
</tr>
<tr>
<td><strong>Black and Blue in BDSM</strong></td>
</tr>
<tr>
<td>Niani Jones, Brooklyn College</td>
</tr>
<tr>
<td><strong>4:00-4:40 p.m.</strong></td>
</tr>
<tr>
<td><strong>The Effect of Cultural Background and Involvement in On-Campus Organizations on the Drinking Habits of College Students</strong></td>
</tr>
<tr>
<td>Muneeba Azam, George Mason University</td>
</tr>
<tr>
<td><strong>4:20-4:40 p.m.</strong></td>
</tr>
<tr>
<td><strong>The Land of the Free and the Home of the Incarcerated: Implementing New Ideas from Norway</strong></td>
</tr>
<tr>
<td>Haley Johnson, Western Carolina University</td>
</tr>
</tbody>
</table>
OLD NORTH 205
Sustainability
3:40-4:00 p.m.
Aligning End User Identified Issues with a Campus Sustainability Plan
Zachery Lescowitch, King’s College

OLD NORTH 206
Mathematics
3:40-4:00 p.m.
Clean Lattice Tetrahedra
Thomas Luckner, Eastern Connecticut State University

4:00-4:20 p.m.
Comparative Analysis of Students’ Performance Between Online and on Campus in an Introductory Statistics Course
Kendal McDonald, Georgia College and State University

OLD NORTH 208
Neuroscience
3:40-4:00 p.m.
A Novel Enrichment Experience Affects the Basolateral and Lateral Amygdala Differently in Adolescent Rats
Carly Peggs, Appalachian State University

4:00-4:20 p.m.
A Reaction Time Advantage: Comparative Study of Early Training and Duration in Musicians and Athletes
Morgan Widina, Westminster College

OLD NORTH 211
Nursing
3:40-4:00 p.m.
Age and Gender Influence Survival After Aneurysmal Subarachnoid Hemorrhage
Allison O’Handley, University of Pittsburgh School of Nursing

4:00-4:20 p.m.
Alarm Safety Management in Cardiac Monitoring
Gabriela Silva, University of West Florida

OLD NORTH 207
Environmental Studies & Sciences
4:00-4:20 p.m.
Climate, Pastoralism, and Land Use in Simanjoro, Tanzania
Alix Messer, Colorado State - Colorado State University - Cooperative Extension - Jefferson Co

4:20-4:40 p.m.
Co-Existence Ecology of Large Predators in Belize
Brogan Holcombe, Virginia Polytechnic Institute & State University

STUDENT ORAL SESSION 4 - THU 3:40PM-4:40PM

STUDENT ORAL SESSION 5 - FRI 8:30AM-9:30AM

OLD NORTH 205
Sustainability
3:40-4:00 p.m.
Aligning End User Identified Issues with a Campus Sustainability Plan
Zachery Lescowitch, King’s College

OLD NORTH 206
Mathematics
3:40-4:00 p.m.
Clean Lattice Tetrahedra
Thomas Luckner, Eastern Connecticut State University

4:00-4:20 p.m.
Comparative Analysis of Students’ Performance Between Online and on Campus in an Introductory Statistics Course
Kendal McDonald, Georgia College and State University

OLD NORTH 208
Neuroscience
3:40-4:00 p.m.
A Novel Enrichment Experience Affects the Basolateral and Lateral Amygdala Differently in Adolescent Rats
Carly Peggs, Appalachian State University

4:00-4:20 p.m.
A Reaction Time Advantage: Comparative Study of Early Training and Duration in Musicians and Athletes
Morgan Widina, Westminster College

OLD NORTH 211
Nursing
3:40-4:00 p.m.
Age and Gender Influence Survival After Aneurysmal Subarachnoid Hemorrhage
Allison O’Handley, University of Pittsburgh School of Nursing

4:00-4:20 p.m.
Alarm Safety Management in Cardiac Monitoring
Gabriela Silva, University of West Florida

OLD NORTH 207
Environmental Studies & Sciences
4:00-4:20 p.m.
Climate, Pastoralism, and Land Use in Simanjoro, Tanzania
Alix Messer, Colorado State - Colorado State University - Cooperative Extension - Jefferson Co

4:20-4:40 p.m.
Co-Existence Ecology of Large Predators in Belize
Brogan Holcombe, Virginia Polytechnic Institute & State University

STUDENT ORAL SESSION 5 - FRI 8:30AM-9:30AM

BUSINESS BUILDING 105
Communications
8:30-8:50 a.m.
Leading Colors: Employee Personalities and

STUDENT ORAL SESSION 5 - FRI 8:30AM-9:30AM

Supervisors’ Leadership Styles
Kaleigh May, Capital University

8:50-9:10 a.m.
Made in Colombia—Drugs, War and Violence: The Framing of Colombia in the New York Times vs. Tourists’ Perception
Skyler de Groot, Elon University

BUSINESS BUILDING 108
Interdisciplinary Studies
8:30-8:50 a.m.
Curanderismo
Alejandra Morales, San Jacinto College Honors Program

9:10-9:30 a.m.
Glass Cuts Deeper: an Exploration of Appalachian Art Through Lens of Clogging, Crafting, and Cooking
Kara Dotten, The University of Virginia’s College at Wise

BUSINESS BUILDING 110
Philosophy & Ethics
8:30-8:50 a.m.
Affluenza: The Great Plague of the 21st Century
Sarah White, Wittenberg University

8:50-9:10 a.m.
Are Scientific Models of Life Testable? Lessons from Simpson’s Paradox and Philosophy of Science
Nolan Grunska, Montana State University Bozeman

BUSINESS BUILDING 125
Literature
8:30-8:50 a.m.
Social Sin: Book Bannings and To Kill a Mockingbird’s Interpretation of Southern Rape Fear
Amber Thompson, Southwestern Oklahoma State University

9:10-9:30 a.m.
Reading Edricht’s “Fleur” Through a Feminist Theory Lens: How Native American Feminism Has Shaped the Fourth Wave
Asja Cole, University of Central Oklahoma

BUSINESS BUILDING 126
Poetry & Creative Writing
8:30-8:50 a.m.
“I Don’t Know Who I Am Today”: the Evolution of Identity Through Poetry
Peyton Sibert, The University of Findlay
8:50-9:10 a.m.  
*Through the Darkness and the Night*: A Female Protagonist Representing Plus-Size Women  
Kelsey Nevius, The University of Findlay

9:10-9:30 a.m.  
Every Metal Grate: Exploring Identity as a Social Construct  
Emma DePanise, Salisbury University

---

**BUSINESS BUILDING 209**

8:30-8:50 a.m.  
Proportion, Conversion, and Psychotherapy: Social Critique in Virginia Woolf’s Mrs. Dalloway  
Dylan Reber, University of West Georgia

9:10-9:30 a.m.  
Reconciliation of Science and Spirituality Through the Modus Operandi of Solomon’s House in Sir Francis Bacon’s New Atlantis  
Patrick Ralph, William Peace University

---

**BUSINESS BUILDING 210**

9:10-9:30 a.m.  
What Happened to Day Five?: Problems with the Past in Kazuo Ishiguro’s “The Remains of the Day”  
Kaitlyn Buls, Luther College

---

**BUSINESS BUILDING 211**

8:50-9:10 a.m.  
Examining the Relationship Between Political Knowledge and Efficacy  
Zachary Isaacs, Aquinas College

9:10-9:30 a.m.  
Fascism Here, Fascism Everywhere: Concerning Trends in American Politics and Their Potential Global Impact  
Rudy Martinez, Texas State University - San Marcos

---

**BUSINESS BUILDING 212**

8:30-8:50 a.m.  
The Balance Between National Security and Constitutional Principles in the War on Terror  
David DeFelice, Duquesne University

9:10-9:30 a.m.  
Examining the Political Nature of Crisis Communications in China: a Case Study of Government Response and Public Perceptions During Typhoon Hato  
Katherine Kelly, Long Island University

---

**CENTER FOR TRANSFORMATIVE LEARNING 101**

9:10-9:30 a.m.  
Potential Global Impact: Examining the Political Nature of Crisis Communications in China: a Case Study of Government Response and Public Perceptions During Typhoon Hato  
Katherine Kelly, Long Island University

---

**CENTER FOR TRANSFORMATIVE LEARNING 108**

8:30-8:50 a.m.  
Encouraging Educational Advancement: The Determination of One Organization to Improve the Lives of Migrant Youth  
Shelby Busha, Long Island University

9:10-9:30 a.m.  
Ethical Expats?: A Study of Social Responsibility Within the Expatriate Community in Chiang Mai, Thailand  
Alanna Tenney, Eastern Washington University

---

**CENTER FOR TRANSFORMATIVE LEARNING 109**

8:30-8:50 a.m.  
The Expatriate Experience: An Examination of the Effects of Gender and Workplace Norms on Expatriate Workers in Japan  
Katrina Spin, George Mason University

9:10-9:30 a.m.  
The Perception Gap Over Nuclear Proliferation in the Middle East  
Shawn McFall, Claremont McKenna College

---

**CENTER FOR TRANSFORMATIVE LEARNING 117**

8:30-8:50 a.m.  
Autonomy Under the Abbasid Caliphate  
Logan Big Eagle, Oklahoma State University

9:10-9:30 a.m.  
BioBlitz: A Complement to the Cultural History of an Area  
Caroline Smith, Stevenson University
STUDENT ORAL SESSION 5 - FRI 8:30AM-9:30AM

CENTER FOR TRANSFORMATIVE LEARNING 118

History
8:30-8:50 a.m.
The Origins of Bay Area Hip Hop
Alexandra Schumacher, Dominican University of California

8:50-9:10 a.m.
The Representation of America: the American Revolution
Jawan Attallah, Valparaiso University

9:10-9:30 a.m.
The Role of a Youth Pastor After Mandatory Reporting
Mariah Christ, John Brown University

COMMUNICATIONS BUILDING 105

Art History
8:30-8:50 a.m.
Escaping into the Creative Imagination: A Case Study of James J. Guthrie and the Pear Tree Press
Hayley Harlow, University of Kentucky

8:50-9:10 a.m.
Hindu Iconography
Scout Stanley, University of Central Oklahoma

9:10-9:30 a.m.
Hitler Meets Postcolonialism: Theft of Art During World War II and Restitution’s Effect on Identity
Erin Rothweiler, Pacific University

COMMUNICATIONS BUILDING 119

Art History
8:30-8:50 a.m.
Staging the Rococo: Intermediality, Theatricality and Spectacle in the Work of Jean-Honoré Fragonard
Alissa Bell, Wells College

9:10-9:30 a.m.
The Art of Manholes
Hayla Perrone, University of Central Oklahoma

COMMUNICATIONS BUILDING 121

Film/Photography Studies
9:10-9:30 a.m.
Exploring Audience Demographic or Social Biases in Representation of “Other” in Televised Character
Kelsey Bruce, University of Alabama

COMMUNICATIONS BUILDING 200

Music
9:10-9:30 a.m.
Exoticism in 18th Century Opera: Appreciation Versus Appropriation
Maggie Pazur, Western Carolina University

COMMUNICATIONS BUILDING 203

Music
8:50-9:10 a.m.
Un-Blurring The Lines of Music Copyright Law
Jake Dickerson, Southern Nazarene University

COMMUNICATIONS BUILDING 204

Education
8:30-8:50 a.m.
Creating Inclusive Classrooms for English Language Learners
Delainey Boyd, Dominican University of California

8:50-9:10 a.m.
Is It Possible to Create a Low Fat, High Nutritional Value, and Allergen Free Cupcake?
Racheal Speltz, University of Memphis

EDUCATION BUILDING 106

Kinesiology & Exercise Science
8:30-8:50 a.m.
Health in Longevity: Benefits of Exercise Programming for Senior Adults In Oklahoma
Catherine Patrick, University of Central Oklahoma

9:10-9:30 a.m.
Oculus Rift Virtual Reality: Comparison of Pre-test vs. Post-test Psychological Responses
Kyle Wilson, Eastern Connecticut State University

EDUCATION BUILDING 111

Nutrition
8:50-9:10 a.m.
Quality vs. Quantity
Kyle Ziegler, Florida Atlantic University
STUDENT ORAL SESSION 5 - FRI 8:30AM-9:30AM

EDUCATION BUILDING 113
Biochemistry
8:30-8:50 a.m.
Investigating Catalytically Important Residues in Escherichia Coli Prolyl-tRNA Synthetase Using Site Directed Mutagenesis
Katelyn Weeks, University of Wisconsin - Eau Claire

8:50-9:10 a.m.
Isolation of Full-Length LGN for X-ray Crystallography
Justin Galardi, State University of New York-Brockport

9:10-9:30 a.m.
Measuring ROS Microdomains Using Optogenetics And Targeted Biosensors
Alicia Wei, University of Rochester

EDUCATION BUILDING 208
Health Sciences & Public Health
8:30-8:50 a.m.
Strategies for Inclusive Sex Education for the LGBTQ+ Community
Brandon Persaud, American University

8:50-9:10 a.m.
Sustainability in Healthcare
Robert Gurevich, Brooklyn College

9:10-9:30 a.m.
Effects of “Looping” in a Flipped Organic Chemistry Classroom
Roger Jacob, Lubbock Christian University

EDUCATION BUILDING 210
Engineering/Engineering Technology
8:30-8:50 a.m.
Characterization of Functionally Graded Ti6Al4V-Mo Via Laser-Metal Deposition for Biomedical Applications
Kevin Stek, Milwaukee School of Engineering

9:10-9:30 a.m.
Cyber Security of Nuclear Power Plants in the United States
Jake Massingill, Kennesaw State University

EDUCATION BUILDING 214
Biology
8:30-8:50 a.m.
Phytoplankton Community Dynamics: Response to Thermal Alteration of an Unidentified Picoeukaryote
Katelyn Doyle, Indiana University

8:50-9:10 a.m.
How Does Decreasing PH Affect the Anti-Predator Response in Two Species of Intertidal Snails?
Shelby Bacus, University of California, Davis

9:10-9:30 a.m.
Electrochemical Detection of Estrogenic Compounds Using Palladium Nanoparticle Modified Electrodes
David Aupperle, Indiana University at South Bend

EDUCATION BUILDING 302
Ecology & Organismal Biology
8:30-8:50 a.m.
How Does Decreasing PH Affect the Anti-Predator Response in Two Species of Intertidal Snails?
Shelby Bacus, University of California, Davis

9:10-9:30 a.m.
Electrochemical Detection of Estrogenic Compounds Using Palladium Nanoparticle Modified Electrodes
David Aupperle, Indiana University at South Bend
8:50-9:10 a.m.
LZ Dark Matter Detector: Signal Propagation System
Haejun Oh, University of Rochester

9:10-9:30 a.m.
Neutral Atom Focusing Using a Pulsed Electromagnetic Lens
Zoe de Bears, University of Texas at Austin

EDUCATION BUILDING 308
Electrical Engineering
8:50-9:10 a.m.
Radio Waves to Electricity: Tesla’s Blueprint
Sean Jesse, East Central University

EDUCATION BUILDING 310
Marketing
8:30-8:50 a.m.
“macho to Metro: Psychological Motivations of Generation Y Men’s Consumption of Skin Care Products”
Kyle McIntyre, Utah Valley University

8:50-9:10 a.m.
Chasing A Paradigm Shift in Marketing Practices: From Value Chain to Value Creation
Chae Hyeon Lee, University of Central Oklahoma

9:10-9:30 a.m.
Beauty and the Corporate Beast: Paradoxical Marketing Strategies in the Beauty Industry
Brielle McQuiston, Salisbury University

EDUCATION BUILDING 311
Biology
8:30-8:50 a.m.
Diversity and Behavior of Native Bees in Southeastern Wisconsin Using Bee Hotels
Donna Charleston, University of Wisconsin - Parkside

9:10-9:30 a.m.
Diversity of Fungal Needle Endophytes of Ponderosa Pine
Jamie Kenney, Eastern Washington University

EDUCATION BUILDING 312
Cell & Molecular Biology
8:50-9:10 a.m.
Efficient CRISPR/Cas9 Genome Editing Components with a Novel Cell-penetrating Peptide
David Axford, Kennesaw State University

9:10-9:30 a.m.
Exploiting Migration and Metabolism: A Novel Approach to Metastatic Cancers
John Lozada, University of Rochester

NIGH UNIVERSITY CENTER 301
Psychology
8:30-8:50 a.m.
Life Satisfaction, Self-Regulation, Motivation to Change, and Family History as Predictors of Young Adult Alcohol Misuse
Sonia Hopkins, University of Memphis

8:50-9:10 a.m.
Is Truth Faster Than Fiction?
Jennifer Haddock, University of Central Oklahoma

NIGH UNIVERSITY CENTER 304
Psychology
8:30-8:50 a.m.
Relationship Quality and Shyness as Predictors of Friendship in Emerging Adulthood
Tiffany Absher, The University of Virginia’s College at Wise

8:50-9:10 a.m.
Development of Neural Learning Networks to Distinguish Wheelchair Movement from Non-Wheelchair Movement Captured by Smart Mobile Devices
Binamrata Sharma, Morehead State University

9:10-9:30 a.m.
Fast Algorithms for Recommender Systems
Souparna Agnihotri, Iowa State University

NIGH UNIVERSITY CENTER 320B
Sociology
8:50-9:10 a.m.
Exploring Culture’s Influence on Parental Educational Expectations for Their Children’s Educational Career
Dhruv Patel, Wayne State University

9:10-9:30 a.m.
Exploring Masculinity on College Campuses: A Study of Undergraduate Institutions Approaches to Dominant Masculinities
Merry Snyder, Hamline University
STUDENT ORAL SESSION 5 - FRI 8:30AM-9:30AM

OLD NORTH 208
Neuroscience
9:10-9:30 a.m.
Human vs. Machine Game Playing
Ethan Owens, Iowa State University

OLD NORTH 205
Sustainability
9:10-9:30 a.m.
Solar Apparel
Courtney Beringer, Iowa State University

OLD NORTH 206
Mathematics
8:50-9:10 a.m.
Comparison of Physical Solutions to the Two Dimensional Partial Differential Wave Equation
Misha Chalkley, Jacksonville University

9:10-9:30 a.m.
Cyclic Polynomials of Degree P^2 and P^3
Peter Komlofske, Elon University

OLD NORTH 207
Environmental Studies & Sciences
8:50-9:10 a.m.
Does Flooding Affect the Density of Woody Plants and the Demography of Riparian Trees?
Catherine White, Oklahoma State University

9:10-9:30 a.m.
Effects of Biosurfactant Producers on the Biodegradation of and Methane Production from Coal
Rita Park, Montana State University Bozeman

STUDENT ORAL SESSION 6 - FRI 9:45AM-10:45AM

BUSINESS BUILDING 105
Communications
9:45-10:05 a.m.
Perceiving the Black Box: Understanding Trust in Algorithms
Anna Zwistelberg, Elon University

10:05-10:25 a.m.
Political Police Project
Nicholas Bradley, University of Memphis

BUSINESS BUILDING 108
Interdisciplinary Studies
9:45-10:05 a.m.
Socioculture of Aedes Fever Virus Vectors
Tyler Rapp, University of North Carolina, Charlotte

10:05-10:25 a.m.
How Advertisements Are Made Political and Provoke Emotion
Matthew Alvarez, University of California - Merced

BUSINESS BUILDING 110
Philosophy & Ethics
9:45-10:05 a.m.
Death in the Context of Indefinitely Extended Life
Madeline Hass, University of Wisconsin - Oshkosh

10:05-10:25 a.m.
Dennett, Determinism, and the “Strong Control Principle”
Pierce Marks, University of Central Oklahoma

10:25-10:45 a.m.
Emerson’s Unrealistic Ideas on Conformity
Mary Brown, Western Carolina University

BUSINESS BUILDING 112
Literature
9:45-10:05 a.m.
Ecology, Economy and Estrangement in Chekhov’s Works
Bradley Bittros, California University of Pennsylvania

10:05-10:25 a.m.
Feminism in Young Adult Literature: The Representation of Muslim Women
Ira Cheema, University of Central Oklahoma

BUSINESS BUILDING 125
Literature
9:45-10:05 a.m.
Spook Warning: Examining the Ghost Dance in Sherman Alexie’s “Distances”
Ashley Wood, University of Central Oklahoma

10:05-10:25 a.m.
Subservience and Proprietorship: Conflicting Characterizations of Eve in John Milton’s Paradise Lost
Wallace Golding, University of Alabama at Birmingham

10:25-10:45 a.m.
Surrogacy in Motherhood: an Exploration of the Impact of Mothering in All Its Forms Through the Lives and Works of Mary Wollstonecraft and Mary Shelley
Jayne Stone, Wittenberg University

STUDENT ORAL SESSION 6 - FRI 9:45AM-10:45AM

OLD UNIVERSITY CENTER 320C
Criminology/Criminal Justice
8:50-9:10 a.m.
The Shadow of the Juvenile Justice System
Rene Cote, Western Carolina University

9:10-9:30 a.m.
Trapped in Punitive Patterns? Understanding State Differences in Juvenile Transfer Rates
Kyra Paul-Fowler, American University

OLD UNIVERSITY CENTER 320C
Sustainability
8:50-9:10 a.m.
Solar Apparel
Courtney Beringer, Iowa State University

9:10-9:30 a.m.
Does Flooding Affect the Density of Woody Plants and the Demography of Riparian Trees?
Catherine White, Oklahoma State University

9:10-9:30 a.m.
Effects of Biosurfactant Producers on the Biodegradation of and Methane Production from Coal
Rita Park, Montana State University Bozeman

STUDENT ORAL SESSION 5 - FRI 8:30AM-9:30AM

OLD NORTH 208
Neuroscience
9:10-9:30 a.m.
Human vs. Machine Game Playing
Ethan Owens, Iowa State University

OLD NORTH 205
Sustainability
9:10-9:30 a.m.
Solar Apparel
Courtney Beringer, Iowa State University

OLD NORTH 206
Mathematics
8:50-9:10 a.m.
Comparison of Physical Solutions to the Two Dimensional Partial Differential Wave Equation
Misha Chalkley, Jacksonville University

9:10-9:30 a.m.
Cyclic Polynomials of Degree P^2 and P^3
Peter Komlofske, Elon University

OLD NORTH 207
Environmental Studies & Sciences
8:50-9:10 a.m.
Does Flooding Affect the Density of Woody Plants and the Demography of Riparian Trees?
Catherine White, Oklahoma State University

9:10-9:30 a.m.
Effects of Biosurfactant Producers on the Biodegradation of and Methane Production from Coal
Rita Park, Montana State University Bozeman

STUDENT ORAL SESSION 6 - FRI 9:45AM-10:45AM

BUSINESS BUILDING 105
Communications
9:45-10:05 a.m.
Perceiving the Black Box: Understanding Trust in Algorithms
Anna Zwistelberg, Elon University

10:05-10:25 a.m.
Political Police Project
Nicholas Bradley, University of Memphis

BUSINESS BUILDING 108
Interdisciplinary Studies
9:45-10:05 a.m.
Socioculture of Aedes Fever Virus Vectors
Tyler Rapp, University of North Carolina, Charlotte

10:05-10:25 a.m.
How Advertisements Are Made Political and Provoke Emotion
Matthew Alvarez, University of California - Merced

BUSINESS BUILDING 110
Philosophy & Ethics
9:45-10:05 a.m.
Death in the Context of Indefinitely Extended Life
Madeline Hass, University of Wisconsin - Oshkosh

10:05-10:25 a.m.
Dennett, Determinism, and the “Strong Control Principle”
Pierce Marks, University of Central Oklahoma

10:25-10:45 a.m.
Emerson’s Unrealistic Ideas on Conformity
Mary Brown, Western Carolina University

BUSINESS BUILDING 112
Literature
9:45-10:05 a.m.
Ecology, Economy and Estrangement in Chekhov’s Works
Bradley Bittros, California University of Pennsylvania

10:05-10:25 a.m.
Feminism in Young Adult Literature: The Representation of Muslim Women
Ira Cheema, University of Central Oklahoma

BUSINESS BUILDING 125
Literature
9:45-10:05 a.m.
Spook Warning: Examining the Ghost Dance in Sherman Alexie’s “Distances”
Ashley Wood, University of Central Oklahoma

10:05-10:25 a.m.
Subservience and Proprietorship: Conflicting Characterizations of Eve in John Milton’s Paradise Lost
Wallace Golding, University of Alabama at Birmingham

10:25-10:45 a.m.
Surrogacy in Motherhood: an Exploration of the Impact of Mothering in All Its Forms Through the Lives and Works of Mary Wollstonecraft and Mary Shelley
Jayne Stone, Wittenberg University
BUSINESS BUILDING 126
Poetry & Creative Writing
9:45-10:05 a.m.
Physical Fiction: Exploring a New Genre of Experimental Literature
Erin Weirick, The University of Findlay

10:05-10:25 a.m.
The Self Conscious Presence in Sylvia Plath’s Poetry
Jana Seymour, Southern Nazarene University

10:25-10:45 a.m.
How Achebe and Adichie Hurt Us: Perceptions of Pain in Nigerian Literature
Kelly Mahaffy, Truman State University

BUSINESS BUILDING 209
English
9:45-10:05 a.m.
“‘The Re-invention of the Female Hero in Contemporary Arthurian Film’
Erica Wood, University of Nebraska at Kearney

10:05-10:25 a.m.
Sherlock Holmes: Doyle’s Liberated Detective Against the Metropolitan Police Bureaucracy
Cody Strawth, Salisbury University

BUSINESS BUILDING 210
English
9:45-10:05 a.m.
What’s Done Is Donne: Analyzing Misogyny in Elegy 19
Tiffany Nguyen, Trinity University

10:05-10:25 a.m.
Women’s Rights in the Civil War Era: Reinterpretation of E.D.E.N. Southworth’s Britomart Through Frances Cogan’s Model of Real Womanhood
Noelle Castr, Valparaiso University

BUSINESS BUILDING 207
English
9:45-10:05 a.m.
Haunted by Identity: An Examination of the Divided Subject in W.E.B. Du Bois’ The Souls of Black Folk and Nella Larsen’s Passing
Shelby Lombardo, William Peace University

10:05-10:25 a.m.
Xenophobia and the Creation of Terror: Lovecraft and Poe
Nicole Castilla, University of West Florida

BUSINESS BUILDING 211
Political Science
9:45-10:05 a.m.
Freedom of Speech on College Campuses
Martin Hooper, Susquehanna University

10:05-10:25 a.m.
Global Internet Technologists and Innovators Share Fears and Hopes for the Future of Communications Technologies
Alexandra Roat, Elon University

CENTRE FOR TRANSFORMATIVE LEARNING 108
Political Science
9:45-10:05 a.m.
The Directionality of the Church and State Separation
Muktha Nair, University of Houston

10:05-10:25 a.m.
The Fight Against Human Trafficking and Modern Day Slavery: A Critical Analysis
Shawn Woods, Carleton University

CENTRE FOR TRANSFORMATIVE LEARNING 109
International Studies
9:45-10:05 a.m.
The Practical Applicability of Enforcing Human Rights Laws in the Area of Human Trafficking
Bryna Shenny, California University of Pennsylvania

10:05-10:25 a.m.
Josh Levesque, American University

CENTRE FOR TRANSFORMATIVE LEARNING 101
Anthropology & Archeology
9:45-10:05 a.m.
An Ethnographic Study of Cubans in Guymon, Oklahoma
Sarah Ware, University of Oklahoma Norman Campus

10:05-10:25 a.m.
Anthropological Reconstruction of African Diasporic History
Sherma Rismay, Central Connecticut State University

10:25-10:45 a.m.
The Rise of Non State Actors in the Middle East
Megan Hines, Marquette University
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:45-10:05 a.m.</td>
<td>Bishops and Civic Magistrates: A Comparative Analysis of Sources of Justice in Late Antiquity</td>
<td>Matt Braum, John Brown University</td>
</tr>
<tr>
<td>10:05-10:25 a.m.</td>
<td>The Social Impact of the Development and Decline of Streetcars in Hartford, 1900-1950</td>
<td>Andrea Slater, Eastern Connecticut State University</td>
</tr>
<tr>
<td>10:25-10:45 a.m.</td>
<td>The Strategic Exploitation of William the Marshal Abstract</td>
<td>Coleton Parks, Lubbock Christian University</td>
</tr>
<tr>
<td>9:45-10:05 a.m.</td>
<td>Mourning Presidential Assassinations: How Grief Drew People Together</td>
<td>Karissa Varga, Hendrix College</td>
</tr>
<tr>
<td>10:05-10:25 a.m.</td>
<td>The Duality of Devetsil: Poetism and Constructivism</td>
<td>Amelia Goldsby, Truman State University</td>
</tr>
<tr>
<td>10:25-10:45 a.m.</td>
<td>The Right to Fear Shall Not Be Infringed: Conspiracies in the Contemporary Militia Movement</td>
<td>Jonathan Reiswig, University of Central Oklahoma</td>
</tr>
<tr>
<td>9:45-10:05 a.m.</td>
<td>Varieties of Conversion Experience: Natural, ‘Nonreligious,’ and ‘Religious’</td>
<td>Tomoki Sasaki, Lafayette College</td>
</tr>
<tr>
<td>10:05-10:25 a.m.</td>
<td>How Does Japanese Calligraphy Inspired Typography in the Modern World of Graphic Design</td>
<td>Elisa Martinez, University of Central Oklahoma</td>
</tr>
<tr>
<td>10:25-10:45 a.m.</td>
<td>Illustration as an Influencer on Cultural Society</td>
<td>Jordan Daniels, University of Kentucky</td>
</tr>
<tr>
<td>9:45-10:05 a.m.</td>
<td>The Development of a Script for a Documentary on Puerto Rican Artists Living Outside the Island</td>
<td>Aisha Perez, University of Puerto Rico - Rio Piedras Campus</td>
</tr>
<tr>
<td>10:05-10:25 a.m.</td>
<td>The Duality of Devetsil: Poetism and Constructivism</td>
<td>Amelia Goldsby, Truman State University</td>
</tr>
<tr>
<td>10:25-10:45 a.m.</td>
<td>GOJIRA and Suffering: An Analysis of the Evolution of a Japanese Pop Culture Icon</td>
<td>Tanner Cassidy, North Central College</td>
</tr>
<tr>
<td>9:45-10:05 a.m.</td>
<td>White Noise &amp; White Supremacy: The Intersection of Nationalism &amp; Music Via Donald Trump’s Tweets</td>
<td>Jesse Steinmetz, Eastern Connecticut State University</td>
</tr>
<tr>
<td>10:05-10:25 a.m.</td>
<td>The Duality of Devetsil: Poetism and Constructivism</td>
<td>Amelia Goldsby, Truman State University</td>
</tr>
<tr>
<td>10:25-10:45 a.m.</td>
<td>The Misconceptions of Native Americans in Education’s Past</td>
<td>Erin Tinnell, Kennesaw State University</td>
</tr>
</tbody>
</table>
EDUCATION BUILDING 106
Kinesiology & Exercise Science
9:45-10:05 a.m.
Perceived Supports and Quality of Life: Physical Therapy Setting
Megan Howell, Southern Nazarene University

10:05-10:25 a.m.
Relationship Between Functional Movement Screening Scores and Climbing Performance While Rock Climbing Indoors
Emily Robertson, Georgia College and State University

10:25-10:45 a.m.
The Effects of Maximal Exercise on Visual Learning
Kaitlyn Phillips, Georgia College and State University

EDUCATION BUILDING 111
Nutrition
9:45-10:05 a.m.
The Effect of Lescine Supplementation on Liver Protein Synthesis in a Cancer Cachexia Model
Aaron Persinger, University of Memphis

10:05-10:25 a.m.
Probing the Tetrameric Structure of Leishmania major Pteridine Reductase (PTR1) with Point Mutations and Interface-derived Peptides
Meredith Johnson, Dickinson College

10:25-10:45 a.m.
Purification of N-terminal Chimeras of CCL19 and CCL21 for CCR7 Biased Signaling Analysis in Cancer
Pontian Adogamhe, University of Wisconsin - Whitewater

EDUCATION BUILDING 113
Biochemistry
10:05-10:25 a.m.
Ethical Issues Concerning Consent of Diverse Sex Development Surgeries
Mariana Serrano, Eastern Connecticut State University

10:25-10:45 a.m.
Identification of Liver Toxins in Northeast Florida Algal Blooms Using Mass Spectrometry
Phillip Le, University of Central Oklahoma

EDUCATION BUILDING 203
Engineering/Engineering Technology
9:45-10:05 a.m.
Prototype of a Space Wi-Fi Mobile, Disruption-Tolerant, Ad-hoc Mesh Network
Andrew Hughes, San Jacinto College Honors Program

10:05-10:25 a.m.
Search and Rescue Assistance Rover (SRAR)
Jorge Iniguez, Metropolitan State University of Denver

10:25-10:45 a.m.
Sensitivity Analysis of a 3D Piezoresistive Pressure Sensor
Ethan Lim, Eastern Washington University

EDUCATION BUILDING 204
Health Sciences & Public Health
9:45-10:05 a.m.
Enhancing Health Information Systems Through Data Reconstruction In An Urban Setting In Kenya
Christine Amite, University of West Florida

10:05-10:25 a.m.
Ethical Issues Concerning Consent of Diverse Sex Development Surgeries
Mariana Serrano, Eastern Connecticut State University

10:25-10:45 a.m.
The Impact of the Promotion/Relegation System on Financial/On-Field Performance in English League Football
Mason Staloph, Elon University

EDUCATION BUILDING 205
Business/Finance/Accounting
9:45-10:05 a.m.
The Effect of the Entry of a Generic Company In The Pharmaceutical Market: An Event Study Analysis
Janice Gbedemah, Black Hills State University

10:05-10:25 a.m.
Design and Fabrication of Ultrasound Actuation of Arterial Blood Vessels
Phillip Le, University of Central Oklahoma

10:25-10:45 a.m.
The Effect of VITA Participation on Student Empathy
Christina Byrd, Elon University

EDUCATION BUILDING 206
Chemistry
9:45-10:05 a.m.
The Effect of the Entry of a Generic Company In The Pharmaceutical Market: An Event Study Analysis
Janice Gbedemah, Black Hills State University

10:05-10:25 a.m.
Design and Fabrication of Microfluidic Channels for Studies, Simulations, and the Replication of Arterial Blood Vessels
Phillip Le, University of Central Oklahoma

10:25-10:45 a.m.
Design and Fabrication of Ultrasound Actuated Shape-memory Polymer Drug Delivery Capsules
Benjamin Ailinger, Virginia Polytechnic Institute & State University

EDUCATION BUILDING 207
Biology
9:45-10:05 a.m.
Quantification of Nanoplankton and Pico-plankton Abundances in Two Shallow Fresh-water Lakes Over a Nine-week Period Using Flow Cytometry
Quintin Diou-Cass, Susquehanna University

10:05-10:25 a.m.
Restoration of Monocyte Homeostasis and Resolution of Inflammation Through Addition of 4-Phenylbutyric Acid
Alexandra Teloczi, Virginia Polytechnic Institute & State University

10:25-10:45 a.m.
Results of Microcosm Studies Using Native Cultures from Acid Mine Drainage
Julianna Gilson, Simpson University

EDUCATION BUILDING 208
Health Sciences & Public Health
10:25-10:45 a.m.
The Ethics of Uniformed Medical Practices: Medical Tourism in Low to Middle Income Countries
Chukwunonso Nwaiske, Brooklyn College

EDUCATION BUILDING 210
Engineering/Engineering Technology
9:45-10:05 a.m.
Design and Fabrication of an Acoustic Hologram Lens in Ultrasound Energy Transfer Systems
Ahmed Elnahhas, Virginia Polytechnic Institute & State University

10:05-10:25 a.m.
Design and Fabrication of Microfluidic Channels for Studies, Simulations, and the Replication of Arterial Blood Vessels
Phillip Le, University of Central Oklahoma

10:25-10:45 a.m.
Design and Fabrication of Ultrasound Actuated Shape-memory Polymer Drug Delivery Capsules
Benjamin Ailinger, Virginia Polytechnic Institute & State University

EDUCATION BUILDING 301
Chemistry
9:45-10:05 a.m.
Exploring the Electrochemistry of Organosulfides as High Capacity Cathode Materials for Lithium Battery
Joseph Ackerson, University of Wisconsin - Eau Claire

10:05-10:25 a.m.
Identification of Liver Toxins in Northeast Florida Algal Blooms Using Mass Spectrometry
Kyla Siemens, Jacksonville University

10:25-10:45 a.m.
Quantification of Nanoplankton and Pico-plankton Abundances in Two Shallow Fresh-water Lakes Over a Nine-week Period Using Flow Cytometry
Quintin Diou-Cass, Susquehanna University

EDUCATION BUILDING 302
Ecology & Organismal Biology
10:25-10:45 a.m.
Profiling the Genetic Basis of DNA Methylation in Lung Squamous Cell Carcinoma from African American and European American Cancer Patients
Allison McHayle, Lafayette College
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
<th>Speaker</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:25-10:45 a.m.</td>
<td>Social Environment as Juveniles Affects Attractiveness as Adults in Male House Crickets, Acheta domestica</td>
<td>Education Building 304</td>
<td>Rosaria Rae, North Central College</td>
<td>The Council on Undergraduate Research</td>
</tr>
<tr>
<td>10:05-10:25 a.m.</td>
<td>Economic Shocks and Voter Registration: A California Case Study</td>
<td>Education Building 304</td>
<td>Leanne Klock, University of Maryland College Park</td>
<td>The Council on Undergraduate Research</td>
</tr>
<tr>
<td>10:05-10:25 a.m.</td>
<td>Effects of Rising Global Temperatures on Income Levels and Growth Rates in Rich and Poor States in the United States</td>
<td>Education Building 306</td>
<td>Colby Owen, Lafayette College</td>
<td>The Council on Undergraduate Research</td>
</tr>
<tr>
<td>10:25-10:45 a.m.</td>
<td>Emerging Markets and the Impossible Trinity</td>
<td>Education Building 308</td>
<td>Trisha Biswas, University of Maryland College Park</td>
<td>The Council on Undergraduate Research</td>
</tr>
<tr>
<td>9:45-10:05 a.m.</td>
<td>Novel Derivations for Visibility in Deep Space</td>
<td>Education Building 308</td>
<td>Taylor Carnahan, San Jacinto College</td>
<td>The Council on Undergraduate Research</td>
</tr>
<tr>
<td>10:05-10:25 a.m.</td>
<td>Potential Applications of Lithium Cobalt Oxide in Supercapacitors</td>
<td>Education Building 306</td>
<td>Claire Arneson, University of Wisconsin - Eau Claire</td>
<td>The Council on Undergraduate Research</td>
</tr>
<tr>
<td>10:25-10:45 a.m.</td>
<td>Quantitative Model of the Advanced Near-Field Optical Microscope for Nanomaterial Characterization</td>
<td>Education Building 308</td>
<td>Liam McDermott, Iowa State University</td>
<td>The Council on Undergraduate Research</td>
</tr>
<tr>
<td>10:25-10:45 a.m.</td>
<td>Use of Magnetorquers in Small Satellite Attitude Control Systems</td>
<td>Education Building 308</td>
<td>Rachael Huffman, Eastern Washington University</td>
<td>The Council on Undergraduate Research</td>
</tr>
<tr>
<td>9:45-10:05 a.m.</td>
<td>Brickl Bros. 2017 Campaign: Controversy as a Tool</td>
<td>Education Building 308</td>
<td>Jackson Hopfensperger, University of Wisconsin - La Crosse</td>
<td>The Council on Undergraduate Research</td>
</tr>
<tr>
<td>10:05-10:25 a.m.</td>
<td>Comparison of Generic vs. Specific Ad Copy in a Housing Context</td>
<td>Education Building 308</td>
<td>Halle Platt, University of Nebraska at Kearney</td>
<td>The Council on Undergraduate Research</td>
</tr>
<tr>
<td>10:25-10:45 a.m.</td>
<td>Creating a Marketing Strategy for the Autonomous Vehicle</td>
<td>Education Building 308</td>
<td>Bethany Zalewski, University of Michigan</td>
<td>The Council on Undergraduate Research</td>
</tr>
<tr>
<td>9:45-10:05 a.m.</td>
<td>Myxococcus xanthus DK1622</td>
<td>Education Building 308</td>
<td>Francesca Scribano, Augustana College</td>
<td>The Council on Undergraduate Research</td>
</tr>
<tr>
<td>10:05-10:25 a.m.</td>
<td>Effects of Ocean Acidification on Prochlorococcus</td>
<td>Education Building 308</td>
<td>Anna Aylor, Wittenberg University</td>
<td>The Council on Undergraduate Research</td>
</tr>
<tr>
<td>10:25-10:45 a.m.</td>
<td>Environmental Regulation of Riverine Dragonfly (Odonata) Emergence from Wisconsin Rivers</td>
<td>Education Building 308</td>
<td>Danielle Tesar, University of Wisconsin - Parkside</td>
<td>The Council on Undergraduate Research</td>
</tr>
<tr>
<td>10:05-10:25 a.m.</td>
<td>Germline-Specific Trim28 Heterozygous Male Mice Lose Germ Cells and Spermatogonial Stem Cells in an Age-Dependent Manner</td>
<td>Education Building 312</td>
<td>Yao Chang Tan, University of California - Los Angeles</td>
<td>The Council on Undergraduate Research</td>
</tr>
<tr>
<td>10:25-10:45 a.m.</td>
<td>Krüppel-Like Factor 4 Mediates Cellular Migration and Invasion by Altering RhoA Activity</td>
<td>Education Building 312</td>
<td>Philip Brauer, Colgate University</td>
<td>The Council on Undergraduate Research</td>
</tr>
<tr>
<td>10:05-10:25 a.m.</td>
<td>The Relationship Between Conservatism and Attitudes Towards Addiction</td>
<td>Education Building 312</td>
<td>Reggie Gates, Dixie State College of Utah</td>
<td>The Council on Undergraduate Research</td>
</tr>
<tr>
<td>10:25-10:45 a.m.</td>
<td>The Road to Happiness: Self-Enhancement via Prosocial Spending</td>
<td>Education Building 301</td>
<td>Michael White, Elmhurst College</td>
<td>The Council on Undergraduate Research</td>
</tr>
<tr>
<td>10:05-10:25 a.m.</td>
<td>Lying on the Job: The Impact of Lying During Game Play on Organization Members’ Creativity</td>
<td>Education Building 306</td>
<td>Kaleigh May, Capital University</td>
<td>The Council on Undergraduate Research</td>
</tr>
<tr>
<td>10:25-10:45 a.m.</td>
<td>Personality Traits: Predicting Objectively Measured Levels of Exercise and Sleep</td>
<td>Education Building 306</td>
<td>Thomas Harrison, Albright College</td>
<td>The Council on Undergraduate Research</td>
</tr>
<tr>
<td>10:05-10:25 a.m.</td>
<td>Religious Fundamentalism, in Relation to Substance and Behavioral Addictions</td>
<td>Education Building 304</td>
<td>Christena Jensen, Dixie State College of Utah</td>
<td>The Council on Undergraduate Research</td>
</tr>
<tr>
<td>10:25-10:45 a.m.</td>
<td>The Effect of Attachment Style on Aggression in College Students</td>
<td>Education Building 304</td>
<td>Zachary Bishop, Sage College of Albany</td>
<td>The Council on Undergraduate Research</td>
</tr>
</tbody>
</table>
STUDENT ORAL SESSION 6 -
FRI 9:45AM-10:45AM

NIGH UNIVERSITY CENTER 312
Women and Gender Studies
9:45-10:05 a.m.
Cuckolds and Conquerors: Toxic Masculinity in Shakespeare's Much Ado About Nothing
Alexandra Savage, University of Central Oklahoma

10:05-10:25 a.m.
Do Bears Care? Mercer Student Perceptions of and Habits Regarding Activism and Political Involvement
Ansleigh Seaver, Mercer University

10:25-10:45 a.m.
Escaping Bustles and Bird Cages in The Awakening
Arielle Tesoriero, Salisbury University

OLD NORTH 205
Sustainability
9:45-10:05 a.m.
Sustainable Waste Management Post-Natural Disasters
Daniel Brehm, Appalachian State University

10:05-10:25 a.m.
The Issues and Worldviews of the Food Morality Movement
Jessica Cheney, Doode College

OLD NORTH 206
Mathematics
9:45-10:05 a.m.
Defining Radius for Abstract Shapes
Charley Burtwistle, Doane College

10:05-10:25 a.m.
Dynamic Modelling of Subclones in Patients with Late-Stage Breast and Ovarian Cancers to Block and Reverse Chemo-resistant Tumors
Katelyn Queen, University of Utah

OLD NORTH 207
Environmental Studies & Sciences
9:45-10:05 a.m.
Impacts of Ocean Acidification on Predator-Prey Relationships
Maria Manz, Moravian College

NIGH UNIVERSITY CENTER 314
Computer Science
9:45-10:05 a.m.
Fractals as a Tool for Introducing Computer Science Concepts for K-12 and Beyond
Andrew Tapia, University of Kentucky

10:05-10:25 a.m.
Identification of Noise Color on Compounded Audio Signals Via an Infinite-Valued Logic System and Neuro Network Learning
Allie Wynn, University of Arkansas at Monticello

OLD NORTH 208
Neuroscience
9:45-10:05 a.m.
Influence of Environmental Enrichment on Neural Activation in the Entorhinal Cortex
Hannah Godfrey, Appalachian State University

10:05-10:25 a.m.
One Enriching Experience Enhances Neural Activity in the Adolescent Hippocampal Formation
Paige Clayton, Appalachian State University

OLD NORTH 211
Nursing
9:45-10:05 a.m.
Diabetes Mellitus Education of Parents, Teachers, Administrators
Alexandra Sakakeeny, Abilene Christian University

10:05-10:25 a.m.
Factors Associated with Core Body Temperatures in Patients Receiving General Anesthesia During Surgery
Grace Paik, University of Pittsburgh School of Nursing

10:25-10:45 a.m.
Greater Depressive Symptoms Predict Adherence to Aromatase Inhibitor Therapy in Post-Menopausal Women with Breast Cancer
Michelle Sech, University of Pittsburgh School of Nursing
STUDENT ORAL SESSION 7 - FRI 1:30PM-2:30PM

BUSINESS BUILDING 105

Communications
1:50-2:10 p.m.
Rhetorical Analysis of Michael Jackson’s 1993 “Heal the World” Performance
Lauren Rentz, The University of Virginia’s College at Wise

2:10-2:30 p.m.
Sheriff’s Deputies and Outcomes of Dialectical Tensions
Ben Brandley, Weber State University

BUSINESS BUILDING 108

Interdisciplinary Studies
1:50-2:10 p.m.
Factors Influencing Dog Adoptability
Sarai Bauguess, Kennesaw State University

BUSINESS BUILDING 110

Philosophy & Ethics
1:30-1:50 p.m.
How To SophroSynize Your Phone
Parker Burchett, Eastern Washington University

1:50-2:10 p.m.
Immanuel Kant’s Moral Church
Marcus Taylor, Western Carolina University

2:10-2:30 p.m.
Kantian Christianity
Katie Riley, Western Carolina University

BUSINESS BUILDING 112

Literature
1:30-1:50 p.m.
For Love of Countryside: Politics, Rural Environment, and the Mid-Victorian Novel
Carly Lewis, Wheaton College

1:50-2:10 p.m.
Gender and Medieval Literature: An Analysis of Sir Thomas Malory’s Le Mort d’Arthur
Christian Tabak, University of Central Oklahoma

2:10-2:30 p.m.
Lily Kime, Luther College

BUSINESS BUILDING 125

Literature
1:50-2:10 p.m.
The Complexes Shaping the Development of Female Identities in Latinx Literature
Perla Olguin, Mount Saint Mary’s University

BUSINESS BUILDING 126

Poetry & Creative Writing
1:30-1:50 p.m.
Where Poetry Comes From: Queerness and Mental Illness
Ava Runter, Mount St. Mary’s College - Los Angeles

BUSINESS BUILDING 205

English
1:30-1:50 p.m.
“Under the River”: An Examination of Language and the Problem of Literalism and Communication in Flannery O’Connor’s “The River”
Nicole Banistean, Carthage College

1:50-2:10 p.m.
A Cleaver Picture of H.D. and Her Influence During the 20th Century: A Queer, Comparative Study
Ty Aste, University of Science and Arts of Oklahoma

2:10-2:30 p.m.
A Blend of Absurdism and Humanism: Defending Kurt Vonnegut’s Place in the Secondary Setting
Krisandra Johnson, Indiana Wesleyan University

BUSINESS BUILDING 207

English
1:30-1:50 p.m.
I Know It Sounds a Little Pious: David Foster Wallace’s Infinite Jest in Conversation with John Donne’s Metempsychosis
Mark Tyler, John Brown University

2:10-2:30 p.m.
Inanna’s Zigurrat: an Examination of Maslow’s Hierarchy of Needs on Sumerian Texts About Goddess Inanna’s Cults
Anh Dinh, University of Central Oklahoma

BUSINESS BUILDING 209

English
1:30-1:50 p.m.
Solitary: the Other Side
Darian Mixon, University of Central Oklahoma

1:50-2:10 p.m.
Something Wicked This Way Comes: The Supernatural and Unnatural in Macbeth
Amanda Nowak, Carthage College

2:10-2:30 p.m.
Sympathy for the Unexpected: A Re-trying of the Clutter Murder Trial in “In Cold Blood”
Amanda Nowak, Carthage College

BUSINESS BUILDING 210

English
1:30-1:50 p.m.
I Am Myself: Celebration of Life as It Is, Constructive Criticism of Knowledge and Language, Similarities with Nietzsche
Sandesh Pokharel, Cameron University

BUSINESS BUILDING 211

Political Science
2:10-2:30 p.m.
Electoral College: To Ditch or Not to Ditch?
William Fetter, Florida Atlantic University

BUSINESS BUILDING 212

Political Science
1:50-2:10 p.m.
The Perpetuation and Aggregation of Nationalistic Social Cleavages Stemming from ‘Brexit’ Within Gibraltar/Society
Stephen Wilkins, University of Tennessee at Chattanooga

2:10-2:30 p.m.
The Rhetoric of U.S. Foreign Aid to Palestine
Harrison Brooks, Eastern Connecticut State University

CENTER FOR TRANSFORMATIVE LEARNING 101

Anthropology & Archeology
1:30-1:50 p.m.
Anti-Chinese Sentiment In Contemporary Vietnam
Nhi Nguyen, Trinity University
<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:50-2:10 p.m.</td>
<td>China’s First Charity Law’s Impact on Grassroots Migrant NGOs</td>
<td>Xueying Chen, University of Rochester</td>
<td>University of Rochester</td>
</tr>
<tr>
<td>2:10-2:30 p.m.</td>
<td>Examining City Park Culture at Hidden Falls</td>
<td>Cory Quirk, Hamline University</td>
<td>University of Central Oklahoma</td>
</tr>
<tr>
<td></td>
<td><strong>CENTER FOR TRANSFORMATIVE LEARNING 108</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1:30-1:50 p.m.</td>
<td><strong>International Studies</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Italian Artifact Restitution: Who Owns History?</td>
<td>Timothy Fujii, American University</td>
<td>American University</td>
</tr>
<tr>
<td></td>
<td><strong>CENTER FOR TRANSFORMATIVE LEARNING 109</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1:30-1:50 p.m.</td>
<td><strong>International Studies</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Tribalism and Water Rights in Israel and Palestine</td>
<td>Veronica Karstens, University of Kansas School</td>
<td>University of Central Oklahoma</td>
</tr>
<tr>
<td>1:50-2:10 p.m.</td>
<td><strong>Center for Transformative Learning 118</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>History</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1:30-1:50 p.m.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Native Americans in the Court Systems of the Chesapeake Bay Region: How Two Colonies Took Drastically Different Paths</td>
<td>Valerie Abbott, Salisbury University</td>
<td>Salisbury University</td>
</tr>
<tr>
<td>2:10-2:30 p.m.</td>
<td>One Man, the Media, and Morale: S.Sgt. Hugh Benson and the Kearney Army Air Field</td>
<td>Tatiana Moore, University of Nebraska at Kearney</td>
<td>University of Central Oklahoma</td>
</tr>
<tr>
<td>1:30-1:50 p.m.</td>
<td><strong>Center for Transformative Learning 119</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>History</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1:30-1:50 p.m.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>The Treatment and Internment of Italian Americans in the Second World War</td>
<td>Gillian Molland, Hamline University</td>
<td>Hamline University</td>
</tr>
<tr>
<td>2:10-2:30 p.m.</td>
<td>The Radiant City in Algiers: Le Corbusier and French Colonial Ambition</td>
<td>Kathyrn Hodge, Truman State University</td>
<td>Truman State University</td>
</tr>
<tr>
<td>1:50-2:10 p.m.</td>
<td><strong>Center for Transformative Learning 117</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>History</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1:50-2:10 p.m.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>The War After: Race Riots, Agency, Space and Post War Experiences of African American Soldiers in the 19th and Early 20th Century</td>
<td>Steven Rivlin, Susquahanna University</td>
<td>University of Central Oklahoma</td>
</tr>
<tr>
<td>2:10-2:30 p.m.</td>
<td>The Washburn-Crosby Company: The Impact of Cadwallader Washburn on Minneapolis</td>
<td>Alex Schmidt, Hamline University</td>
<td>Hamline University</td>
</tr>
<tr>
<td></td>
<td><strong>Center for Transformative Learning 239</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1:30-1:50 p.m.</td>
<td>World Languages</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1:30-1:50 p.m.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>A Study of French in Gallo-Romance Period</td>
<td>Rachel Frizzell, University of Tennessee at Chattanooga</td>
<td>University of Central Oklahoma</td>
</tr>
<tr>
<td>2:10-2:30 p.m.</td>
<td>Promoting Multilingualism</td>
<td>Caterina Russo, Adelphi University</td>
<td>Adelphi University</td>
</tr>
<tr>
<td>1:50-2:10 p.m.</td>
<td><strong>Communications Building 105</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Art History</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1:30-1:50 p.m.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Labor Versus Luxury: an Analysis of American Art and Class at the Turn of the Century</td>
<td>Elizabeth Wetterstrom, Wittenberg University</td>
<td>Wittenberg University</td>
</tr>
<tr>
<td>2:10-2:30 p.m.</td>
<td>Fine Arts Integration Through Co-Curricular Instruction</td>
<td>Valerie Gose, Oklahoma City University</td>
<td>Oklahoma City University</td>
</tr>
<tr>
<td>1:50-2:10 p.m.</td>
<td><strong>Communications Building 119</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Film/Photography Studies</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1:50-2:10 p.m.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>How To Make a Feature Film in Ten Days, With Two Crew Members, and No Money</td>
<td>Cheyanne Smith, Southwestern Oklahoma State University</td>
<td>Southwestern Oklahoma State University</td>
</tr>
<tr>
<td>2:10-2:30 p.m.</td>
<td>The Question of Authenticity in Native American Art - A Focus on Navajo Jewelry</td>
<td>Maria Shah, Kennesaw State University</td>
<td>Kennesaw State University</td>
</tr>
<tr>
<td>1:30-1:50 p.m.</td>
<td><strong>Communications Building 200</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Music</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2:10-2:30 p.m.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Johann Sebastian Bach: Musician, Composer, Theologian</td>
<td>James Ryan, Cedarville University</td>
<td>Cedarville University</td>
</tr>
<tr>
<td>1:30-1:50 p.m.</td>
<td><strong>Communications Building 204</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Education</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1:50-2:10 p.m.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cultural Literacy: An Introduction to African American History</td>
<td>William Reyes De Jesus, Bridgewater State University</td>
<td>Bridgewater State University</td>
</tr>
<tr>
<td></td>
<td>2:10-2:30 p.m.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>The Radiant City in Algiers: Le Corbusier and French Colonial Ambition</td>
<td>Kathyrn Hodge, Truman State University</td>
<td>Truman State University</td>
</tr>
<tr>
<td>2:10-2:30 p.m.</td>
<td>Thinking Transcends Translation: Developing Critical Thinking Skills in the Home Language for Cross-Linguistic Transfer</td>
<td>Hannah Murphy, St. Mary’s College of Maryland</td>
<td>St. Mary’s College of Maryland</td>
</tr>
</tbody>
</table>
### STUDENT ORAL SESSION 7 -  FRI 1:30PM-2:30PM

#### EDUCATION BUILDING 106  
**Kinesiology & Exercise Science**  
1:30-1:50 p.m.  
*The Influence of Lumbopevic-hip Complex Instability on Segmental Angular Velocities Amongst Softball Athletes*  
Gabrielle Gilmer, Auburn University  

2:10-2:30 p.m.  
*Synthesis, Characterization and Biological Testing of Methylated Flavonoid Derivatives as Potential Cyclooxygenase-2 Inhibitors*  
Luis Co, Georgia College and State University

#### EDUCATION BUILDING 111  
**Sport Management**  
1:30-1:50 p.m.  
*Employers’ Bias Regarding Hiring College Athletes*  
Ashlee Carper, Southern New Hampshire University  

1:50-2:10 p.m.  
*Opening Worlds: A Historical Overview of the Special Olympics of Connecticut*  
Mackenzie Walker, Eastern Connecticut State University  

2:10-2:30 p.m.  
*Simulation of Dvr Using Sumo, Orm, and No3*  
Floyd Day, University of Central Oklahoma  

#### EDUCATION BUILDING 107  
**Chemistry**  
1:30-1:50 p.m.  
*Solar Energy Implementation in the Wabash Valley*  
Ellis Kusiak, Indiana State University  

2:10-2:30 p.m.  
*Fungal Colonization: An Exploration of Union Strategy 1870-1910*  
Shi Rui Yeoh, University of Central Oklahoma  

#### EDUCATION BUILDING 108  
**Biochemistry**  
1:30-1:50 p.m.  
*Screening Potential Therapeutic Leads for a Congenital Motor Disorder*  
Paul Espinosa, Georgia College and State University  

2:10-2:30 p.m.  
*FDA Expedited Approval Processes: The Cost of Rapid Access to Prescription Drugs*  
Marcella Meyler, Brooklyn College  

#### EDUCATION BUILDING 201  
**Business/Finance/Accounting**  
1:30-1:50 p.m.  
*The Importance of Multiculturalism in Business for University of Wisconsin-Stout*  
Carol Yang, University of Wisconsin - Stout  

1:50-2:10 p.m.  
*Where Should I Live: Proposing a Top Trading Cycle Allocation Mechanism for College Dormitory Assignments*  
Yuqi Shen, Westminster College  

#### EDUCATION BUILDING 202  
**Chemistry**  
1:30-1:50 p.m.  
*Large Crystal Growth, Optical and Electrical Properties of A2KM(CN)6 (A = (CH6N3), (CH3NH3); M = Fe, Co)*  
Maksymilian Pilecki, Wayne State University  

2:10-2:30 p.m.  
*The Use of Local Alternative Materials as Structural Shielding for Diagnostic Radiological Facilities*  
Schimze Sagon, University of Guyana

#### EDUCATION BUILDING 203  
**Engineering/Engineering Technology**  
1:30-1:50 p.m.  
*Sensitivity of Thermal Conductivity in Actinide Oxides to Defect Concentrations*  
Alex Resnick, Kennesaw State University  

1:50-2:10 p.m.  
*Simulation of Dvr Using Sumo, Orm, and No3*  
Floyd Day, University of Central Oklahoma  

2:10-2:30 p.m.  
*Solar Energy Implementation in the Wabash Valley*  
Ellis Kusiak, Indiana State University  

#### EDUCATION BUILDING 204  
**Health Sciences & Public Health**  
1:30-1:50 p.m.  
*Evaluating the Effectiveness of Comprehensive Versus Risk-Avoidance Sexual Education Curricula in Northern Utah*  
Alyson Rasmussen, Weber State University  

2:10-2:30 p.m.  
*The Safe Sex Express: Evaluation of a Safe Sex Product Delivery Service in Western New York*  
Lorna Krabill, University of Rochester

#### EDUCATION BUILDING 205  
**Biology**  
1:30-1:50 p.m.  
*The Relationship Between Self-Esteem and Drinking Motives in First and Second-Year College Students*  
Shannon Miller, State University of New York-Brockport  

1:50-2:10 p.m.  
*Role of SIN3 HDAC Complex Components in Recruitment to Chromosomes*  
Maksymilian Pilecki, Wayne State University

#### EDUCATION BUILDING 206  
**Health Sciences & Public Health**  
1:30-1:50 p.m.  
*The Safe Sex Express: Evaluation of a Safe Sex Product Delivery Service in Western New York*  
Lorna Krabill, University of Rochester  

1:50-2:10 p.m.  
*The Use of Local Alternative Materials as Structural Shielding for Diagnostic Radiological Facilities*  
Schimze Sagon, University of Guyana

#### EDUCATION BUILDING 207  
**Chemistry**  
1:30-1:50 p.m.  
*Structure Modeling of Uridine Nucleoside Ribohydrolase from the Trichomonas Vaginalis Parasite for the Design of Synthetic Inhibitors*  
Allen Barbarovich, Adelphi University

2:10-2:30 p.m.  
*Synthesis, Characterization and Biological Testing of Methylated Flavonoid Derivatives as Potential Cyclooxygenase-2 Inhibitors*  
Luis Co, Georgia College and State University

#### EDUCATION BUILDING 208  
**Business/Finance/Accounting**  
1:30-1:50 p.m.  
*The Importance of Multiculturalism in Business for University of Wisconsin-Stout*  
Carol Yang, University of Wisconsin - Stout

1:50-2:10 p.m.  
*Where Should I Live: Proposing a Top Trading Cycle Allocation Mechanism for College Dormitory Assignments*  
Yuqi Shen, Westminster College

#### EDUCATION BUILDING 209  
**Engineering/Engineering Technology**  
1:30-1:50 p.m.  
*Design of a Small-Scale Test-Stand and Associated Instrumentation and Controls*  
Daniel Arella, Embry - Riddle Aeronautical University  

2:10-2:30 p.m.  
*Design of a Smart Street Light with Solar Panels*  
Shi Rui Yeoh, University of Central Oklahoma

#### EDUCATION BUILDING 210  
**Biology**  
1:30-1:50 p.m.  
*Rice Cell Wall Components Alter Beneficial Fungal Colonization*  
Daniel Hayden, University of Oklahoma Norman Campus  

2:10-2:30 p.m.  
*Role of SIN3 HDAC Complex Components in Recruitment to Chromosomes*  
Maksymilian Pilecki, Wayne State University  

#### EDUCATION BUILDING 211  
**Chemistry**  
1:30-1:50 p.m.  
*Large Crystal Growth, Optical and Electronic Properties of A2KM(CN)6 (A = (CH6N3), (CH3NH3); M = Fe, Co)*  
Maksymilian Pilecki, Wayne State University

2:10-2:30 p.m.  
*Mercury in St. Johns River Sediments*  
Sarah Buckman, Jacksonville University
2:10-2:30 p.m.
Microwave Surfactant-Thermal Synthesis and Catalytic Ability of [Cu3(BTC)2(H2O)3] MOFs
Tyler Taras, State University of New York-Brockport

EDUCATION BUILDING 302
Ecology & Organismal Biology
1:30-1:50 p.m.
Temperature Regulates Foraging Behavior and Net Energy Gain in the Red Harvester Ant, Pogonomyrmex barbatus
Anna Paraskevopoulos, Cameron University

1:50-2:10 p.m.
Vehicle Speed Controlling System Using PID and GPS Technology
Mohamed Afify, University of Central Oklahoma

EDUCATION BUILDING 308
Electrical Engineering
1:30-1:50 p.m.
Vehicle Impact Recognition and Evasion System Using VANET
Charmant Mushagalusa, University of Central Oklahoma

1:50-2:10 p.m.
Vehicle Speed Controlling System Using PID and GPS Technology
Mohamed Afify, University of Central Oklahoma

EDUCATION BUILDING 310
Marketing
2:10-2:30 p.m.
Ethical Issues Associated with Multi-Level Marketing
Rachel Grubbe, University of Wisconsin - La Crosse

EDUCATION BUILDING 311
Biology
1:30-1:50 p.m.
Fish Out of Water: How Environment Impacts Body Propulsion in an Elongate Fish (Erpetoichthys calabaricus)
Alexus Haddad, Adelphi University

1:50-2:10 p.m.
Foraging Behaviors of the Rusty Crayfish, Orconectes rusticus, on Invasive and Native Leaf Litter
Kerley Warren, Wittenberg University

EDUCATION BUILDING 312
Cell & Molecular Biology
1:30-1:50 p.m.
Molecular Characterization of Two High Light Sensitive Chlamydomonas reinhardtii Mutants, Defective in a Novel Functionally Uncharacterized Gene
Kenneth Kim, University of West Georgia

1:50-2:10 p.m.
MTORC1 Is Necessary and Sufficient to Stimulate GfS Activity in Osteoblasts
Joshua Hardage, East Central University

NIGH UNIVERSITY CENTER 300
Psychology
1:30-1:50 p.m.
Executive Functioning, ADHD, Anxiety and Depression: A Three-Component Executive Functioning Perspective
Emilie Noah, Southern Nazarene University

1:50-2:10 p.m.
Do You See Me? Do Our Views of Suffering and Moral Foundations Determine the Attitudes We Attribute to Those Incarcerated?
Jennifer Dawson, Southern Nazarene University

NIGH UNIVERSITY CENTER 301
Psychology
1:30-1:50 p.m.
Personality and Habit Formation
Kait Roughton, Capital University

1:50-2:10 p.m.
Machiavellianism: Assessing the Relationship Between Cortisol Response, Personality, and Life Experiences
Brianna Newport, Bethel College

NIGH UNIVERSITY CENTER 312
Women and Gender Studies
1:30-1:50 p.m.
Exposing Patriarchy: How Universities Uphold Rape Culture by Silencing and Devaluing Women’s Experiences on College Campuses
Rachel Novak, Kennesaw State University

1:50-2:10 p.m.
The History and Fiscal Implications of the Hyde Amendment
Alexandra Savage, University of Central Oklahoma

NIGH UNIVERSITY CENTER 314
Computer Science
2:10-2:30 p.m.
Automated Course Advising System ACAS for Philander Smith College
Royshawn McClain, Philander Smith College
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
<th>Presenter(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:30-1:50 p.m</td>
<td>Sociology</td>
<td>NIGH UNIVERSITY CENTER 320B</td>
<td>Alexis McCurry, Florida Atlantic University</td>
</tr>
<tr>
<td>1:30-1:50 p.m</td>
<td>Diversity Studies</td>
<td>NIGH UNIVERSITY CENTER 320C</td>
<td>Sydney Eatley, University of Central Oklahoma</td>
</tr>
<tr>
<td>1:50-2:10 p.m</td>
<td>Psychology</td>
<td>OLD NORTH 205</td>
<td>Hokte Petete, Fort Lewis College</td>
</tr>
<tr>
<td>2:10-2:30 p.m</td>
<td>Sociology</td>
<td>OLD NORTH 208</td>
<td>Grace Malcom, Salisbury University</td>
</tr>
<tr>
<td>2:10-2:30 p.m</td>
<td>Neuroscience</td>
<td>OLD NORTH 208</td>
<td>Marta Williams, Luther College</td>
</tr>
<tr>
<td>2:10-2:30 p.m</td>
<td>Nursing</td>
<td>OLD NORTH 211</td>
<td>Lan Pham, University of Pittsburgh</td>
</tr>
<tr>
<td>2:10-2:30 p.m</td>
<td>Mathematics</td>
<td>OLD NORTH 206</td>
<td>Shuning Jin, University of Minnesota, Duluth</td>
</tr>
<tr>
<td>2:45-3:05 p.m</td>
<td>Communications</td>
<td>BUSINESS BUILDING 105</td>
<td>Marisa Fernandez, Appalachian State University</td>
</tr>
<tr>
<td>2:45-3:05 p.m</td>
<td>Psychiatry</td>
<td>BUSINESS BUILDING 105</td>
<td>Emma Link Link, University of Wisconsin - Oshkosh</td>
</tr>
<tr>
<td>2:45-3:05 p.m</td>
<td>Interdisciplinary Studies</td>
<td>BUSINESS BUILDING 108</td>
<td>Ashila Jiwani, Mercer University</td>
</tr>
<tr>
<td>2:45-3:05 p.m</td>
<td>Philosophy &amp; Ethics</td>
<td>BUSINESS BUILDING 110</td>
<td>Michael Pugh, Lubbock Christian University</td>
</tr>
<tr>
<td>2:45-3:05 p.m</td>
<td>Geosciences</td>
<td>BUSINESS BUILDING 125</td>
<td>Adam Smith, Indiana University</td>
</tr>
<tr>
<td>2:45-3:05 p.m</td>
<td>Geosciences</td>
<td>BUSINESS BUILDING 126</td>
<td>Alex Frantum, Capital University</td>
</tr>
<tr>
<td>3:05-3:25 p.m</td>
<td>Literature</td>
<td>BUSINESS BUILDING 112</td>
<td>Parker Long, Southwestern Oklahoma State University</td>
</tr>
<tr>
<td>3:05-3:25 p.m</td>
<td>Literature</td>
<td>BUSINESS BUILDING 125</td>
<td>Charlotte Kalfas, Northern Kentucky University</td>
</tr>
<tr>
<td>3:05-3:25 p.m</td>
<td>Literature</td>
<td>BUSINESS BUILDING 126</td>
<td>Adam Smith, Indiana University</td>
</tr>
</tbody>
</table>
BUSINESS BUILDING 205
English
3:05-3:25 p.m.
Best Practices for Oversight of Special Purpose Governments
Pierre Chesnais, Utah Valley University

3:25-3:45 p.m.
The Concentration of Health Facilities and Health Care Deserts in Los Angeles County
Adrian Nasr Kam, Loyola Marymount University

BUSINESS BUILDING 207
English
2:45-3:05 p.m.
Institutionalized Erasure: The (Dis)Placement of Ethnic Writing Within Schools of English at the University Level
Pamela Rivas, Sonoma State University

3:25-3:45 p.m.
Irony and Alcoholic Escapism in Byron's Skull-Cup Lines
Genevieve Gordon, University of Science and Arts of Oklahoma

BUSINESS BUILDING 209
English
3:25-3:45 p.m.
The Beat Goes On
Anissa Dann, Wittenberg University

BUSINESS BUILDING 211
Political Science
3:25-3:45 p.m.
ISIS Recruitment Among Young European Women
Alyssa Stroup, Virginia Commonwealth University

BUSINESS BUILDING 212
Political Science
3:25-3:45 p.m.
The Use of Façade Grants in the City of Milwaukee and Their Effectiveness
Christopher Paul, University of Wisconsin - La Crosse

CENTER FOR TRANSFORMATIVE LEARNING 101
Anthropology & Archeology
2:45-3:05 p.m.
Fishing Practices of the Tlingit Ancestors Based on the Species Identification of Sebastes
Joy Li, University of Oklahoma Norman Campus

3:05-3:25 p.m.
Japan's Next Top Mascot: An Analysis of the Use of Character Marketing and Commercial Cute in Japan
Zachary Long, Valparaiso University

3:25-3:45 p.m.
Malia Round Stone: Kernels, Calculators, Clock, or Gameboard?
Raphael Schwarz, University of Central Oklahoma

3:05-3:25 p.m.
Women's Reproductive Health in Post-Conflict Rwanda
Marissa Major, Hamline University

3:25-3:45 p.m.
Eisenhower Internationalism and Nasser Nationalism: The Suez Crisis Defining International Policy in Post-Colonial Egypt
Dominic Supple, Dominican University of California

3:05-3:25 p.m.
Rebecca Doan, University of Wisconsin - Stout

3:25-3:45 p.m.
Portland's Forgotten History: An Analysis of Racism’s Impact on Black Health Outcomes from 1940-1960
Teresa Hackler, Pacific Lutheran University

3:05-3:25 p.m.
Early Britain and the Sea: A Series of Relational Developments
Sarah Fantrina, Lubbock Christian University

3:25-3:45 p.m.
Portland's Forgotten History: An Analysis of Racism's Impact on Black Health Outcomes from 1940-1960
Teresa Hackler, Pacific Lutheran University

3:25-3:45 p.m.
Transnational Influences of Early Jesuit Scholars and Explorers in the New World, 1560-1700
Lydia Biggs, Murray State University
### Film/Photography Studies

#### Art History

- **3:05-3:25 p.m.**
  - *Was It a War Crime? Bombing of Dresden: Through the Arts*
  - Arianna Simmons, North Central College

#### Communications Building 105

- **3:05-3:25 p.m.**
  - *Marvel and the Rise of the Cinematic Universe Production Model*
  - Sean Foe, Oakland University

#### Communications Building 200

- **3:05-3:25 p.m.**
  - *Marriage, Madness, Death: The Portrayal of Women in Opera*
  - Olivia Drussell, University of West Florida

#### Communications Building 203

- **2:45-3:05 p.m.**
  - *A Quiet Mind: The Key to Musical Performance*
  - Rebecca Percy, University of Tennessee at Knoxville

- **3:05-3:25 p.m.**
  - *Try Me Good King: A Musical and Contextual Analysis of the Wives of King Henry VIII*
  - Arianna Day, Viterbo University

#### Communications Building 204

- **3:25-3:45 p.m.**
  - *How Can Pre-Service Teachers Engage English Language Learners in Productive Struggle?*
  - Benjamin Dickey, Stephen F. Austin State University

#### Communications Building 206

- **2:45-3:05 p.m.**
  - *Understanding and Overcoming the Correlation Between Poverty and Childhood Illiteracy*
  - Kaitlyn Partin, Southwestern Christian University

- **3:05-3:25 p.m.**
  - *Understanding Students’ Learning Process*

---

### Communications Building 119

- **2:45-3:05 p.m.**
  - *The Sexual Depiction of Unicorns in Medieval Bestiaries*
  - Stephanie Berson, Oklahoma State University

- **3:05-3:25 p.m.**
  - *Transformations of the Turkish Headscarf: an Exploration of the Political Meaning, Socio-economic Impact, Cultural Influence, and the Art and Craft of the Hijab*
  - Kelsey Leuenberger, Bridgewater State University

#### Communications Building 211

- **3:25-3:45 p.m.**
  - *Dance and Death: The Development of Cultural Identity*
  - Jessica Norris, Utah Valley University

### Education Building 106

- **3:05-3:25 p.m.**
  - *Evaluation of the Physical Stability of a Panel of Recombinant Respiratory Syncytial Virus (RSV) Strains*
  - Katelyn Castiglia, Butler University

### Education Building 113

- **2:45-3:05 p.m.**
  - *Synthetic Biology: Production and Utilization of Aspirin Producing Bacteria*
  - Madison Duckwall, Southwestern Oklahoma State University

- **3:05-3:25 p.m.**
  - *Using Monomer Rotamer Interactions to Inform a Rotamer Based Protein Interface Potential*
  - Humza Hemani, University of Michigan

---

### Education Building 203

- **3:25-3:45 p.m.**
  - *Using Cognitive Science Protocols and Their Relation to Laboratory Settings*
  - Paul Cook, University of Central Oklahoma

### Education Building 204

- **3:25-3:45 p.m.**
  - *Female Athletic Trainers’ Perceptions Of Challenges Associated with Providing Athletic Training Services to Collegiate Ice Hockey Players*
  - Rachel Young, Western Carolina University

### Education Building 206

- **3:05-3:25 p.m.**
  - *Health Outcomes in Children Using Delayed and Selective Vaccination Schedules*
  - Corinne Schali, Simpson University

- **3:05-3:25 p.m.**
  - *Abstract - Exploration of Appointed and Emergent Leaders*
  - Jordy Salim, Corban University
STUDENT ORAL SESSION 8 - FRI 2:45PM-3:45PM

3:25-3:45 p.m.
Examing the Use of PMI Project Management Methodology in Academia
Ashlin Martinson, Embry-Riddle Aeronautical University

EDUCATION BUILDING 208
Health Sciences & Public Health
2:45-3:05 p.m.
Understanding Parental Attitudes Toward Abstinence Based and Comprehensive Based Sexual Health Topics in Northern Utah
Laura Pastrana, Weber State University

3:05-3:25 p.m.
Universal Healthcare, The Treatment America Needs
Michael Jacob Calza, City University of New York-Brooklyn College

EDUCATION BUILDING 210
Engineering/Engineering Technology
3:05-3:25 p.m.
Determination of Mathematical Representations for Non-Standard Radioactive Source Geometries
Nathan Buck, Kennesaw State University

3:25-3:45 p.m.
Development of a Novel Integrated MRI-Beating Heart Model for Investigations into Pathophysiological Factors Linked to Tricuspid Regurgitation
Devin Lawrence, University of Oklahoma Norman Campus

EDUCATION BUILDING 214
Biology
2:45-3:05 p.m.
Systems Genetics Analysis to Identify Gene Candidates Associated with Axon Death in Optic Nerve and Glaucoma
Eric Sah, Notre Dame University Of

3:05-3:25 p.m.
The Adverse Effects of Light on Aging Drosophila
Trevor Nash, Oregon State University

3:25-3:45 p.m.
The Effects of Age and Use on Late Life Reproduction in C. remanei and C. elegans Fog-2 Worms
Elena Bagatelas, University of Tennessee at Knoxville

EDUCATION BUILDING 301
Chemistry
2:45-3:05 p.m.
Preliminary Assessment of Rapid DNA Analysis Using Mock Fire Scene Samples
Sarah Enriquez, St. Edward’s University

3:05-3:25 p.m.
Stability of Broad-Spectrum Antibiotics Ciprofloxacin and Cephalexin at Elevated Temperatures Via Liquid Chromatography-Mass Spectrometry
Ariel Pratt, Gannon University

3:25-3:45 p.m.
Synthesis of Rhenium (I) Complexes for Cathepsin L Inhibition and Cell Imaging
Amira Alnabolsi, Wayne State University

EDUCATION BUILDING 302
Ecology & Organisinal Biology
2:45-3:05 p.m.
Using Camera Trapping to Assess Distribution and Diversity of Meso-mammals on the Hahn Farm Montgomery County, Virginia

3:05-3:25 p.m.
Using Rapid Bio-assessment to Evaluate Stream Condition of the North Fork of the Roanoke River on the Hahn Farm Montgomery County, Virginia
Jessica Fitzpatrick, Virginia Polytechnic Institute & State University

3:25-3:45 p.m.
Studies of Higgs Boson Fiducial Cross Sections in the Diphoton Decay Channel with the ATLAS Detector
Andrew Zwanzig, Carleton University

EDUCATION BUILDING 304
Economics
3:25-3:45 p.m.
Innovation, Institutions, and Threat
Phillip Todd, John Brown University

EDUCATION BUILDING 306
Physics
2:45-3:05 p.m.
Spectroscopic Investigation of Europium Doped Crystals for Quantum Information Applications
Robert Nerem, Montana State University Bozeman

3:05-3:25 p.m.
Evaluation of Protein Binding to Silicon Nanowire and Planar
Ceryce Collie, Lincoln University

EDUCATION BUILDING 310
Marketing
2:45-3:05 p.m.
Fairy Tales on TV Commercials: The Effects of Themed Advertising on Consumer Attitudes and Purchasing Intentions
Gabriela Lovera, Jacksonville University

3:05-3:25 p.m.
Main Event Entertainment
Caitlyn Sawyer, University of West Georgia

EDUCATION BUILDING 311
Biological Engineering
2:45-3:05 p.m.
Comparing EEG, EMG, EOG, and ECoG Techniques to Create a Working Neurological Prosthetic
Brianna Donaldson-Morton, University of Wisconsin-Whitewater

3:05-3:25 p.m.
Using Camera Trapping to Assess Distribution and Diversity of Meso-mammals on the Hahn Farm Montgomery County, Virginia
Jessica Fitzpatrick, Virginia Polytechnic Institute & State University

3:25-3:45 p.m.
Quantitative Trait Loci Mapping for Yield and Spike Characteristics in a Recombinant Inbred Line Population of Wheat
Lilia Johnson, Colorado State University-Cooperative Extension-Jefferson County

3:25-3:45 p.m.
Studying Organelle Interactions by Centrifugation in Vivo
Jonathon Thomalla, University of Rochester
STUDENT ORAL SESSION 8 - FRI 2:45PM-3:45PM

3:25-3:45 p.m.
Synaptotagmin-9 Affects Early Phase of Insulin Secretion
Trung Huynh, University of Alabama at Birmingham

NIGH UNIVERSITY CENTER 300 Psychology 2:45-3:05 p.m.
Vagus Nerve Stimulation with Yoga Breathing to Increase Grit and Positive Coping
Jennifer Haddock, University of Central Oklahoma

3:05-3:25 p.m.
Fake News: Identifying Misinformation in Widespread Media
Valerie Szabo, Capital University

NIGH UNIVERSITY CENTER 301 Sociology 3:25-3:45 p.m.
“The Implicit Message Is: Do You Matter?": The Challenges Experienced by Psychologists Working In Cancer Care
Taylor Michl, Webster University

NIGH UNIVERSITY CENTER 304 Psychology 2:45-3:05 p.m.
Study of Animal Based Entertainment
Cydney Rogers, The Sage Colleges

3:25-3:45 p.m.
Tackling Impulsivity with Validation: Using Dialectical Behavior Therapy to Treat Bulimia Nervosa in Transgender MTF Adolescents
Teal Russeau, North Central College

NIGH UNIVERSITY CENTER 312 Women and Gender Studies 3:05-3:25 p.m.
Hegemony in Industrial Design: A Study of Gendered Communication Styles
Kellie Walters, Iowa State University

3:25-3:45 p.m.
Inanna-Ishtar: The Fullness of Being Gender Performativity and Ancient History
Elizabeth Tabak, University of Central Oklahoma

NIGH UNIVERSITY CENTER 314 Computer Science 2:45-3:05 p.m.
Literary Review of the Security for the Internet of Things Survey
Josua Gonzales-Neal, Iowa State University

3:05-3:25 p.m.
Prediction of Humans’ Movement Using Machine Learning Techniques
Christian Sain, Morehead State University

3:25-3:45 p.m.
Robot Design For Human Interaction
Alexandra Bejarano, University of Tulsa

NIGH UNIVERSITY CENTER 320B Sociology 2:45-3:05 p.m.
Implicit Racial Bias in Higher Education
Quennon Gilmore, University of Southern Mississippi

3:05-3:25 p.m.
Indicators of Academic-Related Stress in College Students
Emily Folkerts, Doane College

3:25-3:45 p.m.
Indicators of Academic-Related Stress in College Students
Zhengming Zhang, University of Minnesota, Duluth

NIGH UNIVERSITY CENTER 320C Diversity Studies 2:45-3:05 p.m.
DACA: Issues and Realities
Vivian Bunch, University of Central Oklahoma

3:05-3:25 p.m.
Indicators of Academic-Related Stress in College Students
Juliana Prather, Western Carolina University

3:25-3:45 p.m.
Sex Differences in the Effects of Social Status on Defeat-induced Social Avoidance in Syrian Hamsters
Annie Loewen, University of Tennessee at Knoxville

OLD NORTH 206 Mathematics 3:25-3:45 p.m.
Modeling House Prices in Duluth Using Regression Analysis and Variable Selection
William Griffiths, Montana State University Bozeman

OLD NORTH 207 Environmental Studies & Sciences 2:45-3:05 p.m.
Old Edwards Inn Sustainability Audit: Environmental Science Senior Capstone 2017
Michael Pflanzer, Edgewood College

3:05-3:25 p.m.
Respiratory Dysfunction Worsens as Seizure Threshold Decreases in Kcna1-null Mice
Lauren Netzel, Creighton University

3:25-3:45 p.m.
Sex Differences in the Effects of Social Status on Defeat-induced Social Avoidance in Syrian Hamsters
Annie Loewen, University of Tennessee at Knoxville

OLD NORTH 208 Neuroscience 2:45-3:05 p.m.
Reading Faces Better: Using Short Term Training to Evaluate Trait Empathy and Micro-expression Trainability
Alexander Blum, Iowa State University

3:05-3:25 p.m.
Respiratory Dysfunction Worsens as Seizure Threshold Decreases in Kcna1-null Mice
Lauren Netzel, Creighton University

3:25-3:45 p.m.
Sex Differences in the Effects of Social Status on Defeat-induced Social Avoidance in Syrian Hamsters
Annie Loewen, University of Tennessee at Knoxville
STUDENT ORAL SESSION 8 - FRI 2:45PM-3:45PM

OLD NORTH 211
Nursing
2:45-3:05 p.m.
Moral Distress in Undergraduate Nursing
Melanie Collazo-Valencia, Abilene Christian University

2:45-3:05 p.m.
Nursing
2:45-3:05 p.m.
Moral Distress in Undergraduate Nursing
Melanie Collazo-Valencia, Abilene Christian University

STUDENT ORAL SESSION 9 - FRI 4:00PM-5:00PM

BUSINESS BUILDING 105
Communications
4:00-4:20 p.m.
The Exploration of the Black Woman’s Truth: Linking Slavery, Stereotypes, and Media
Jaelyn Felder, Appalachian State University

4:40-5:00 p.m.
Welcome to Stars Hollow: Feminism and the Gilmore Girls
Katelen Pick, Bridgewater State University

BUSINESS BUILDING 108
Interdisciplinary Studies
4:20-4:40 p.m.
Possible Bias Against Algorithmic (AI) Music
Alyssa Caputo, Brooklyn College

BUSINESS BUILDING 110
Philosophy & Ethics
4:40-5:00 p.m.
The Gnostic Current From Antiquity Through the Middle Ages
Jeremy Christner, University of Central Oklahoma

BUSINESS BUILDING 112
Literature
4:00-4:20 p.m.
Harry Potter and the Implication of Gender
Samantha Trinneer, Black Hills State University

4:20-4:40 p.m.
Historical Trauma, Urbanization, and Colonialism in American Indian Literature
Annawake Varley, University of Central Oklahoma

4:40-5:00 p.m.
Identity as a Territorial Space in Esmeralda
Yahaira Hernandez, Mount Saint Mary’s University

STUDENT ORAL SESSION 10 - FRI 11:00AM-12:00PM

OLD NORTH 211
Nursing
11:00AM-12:00PM
Evaluating the Impact of Nursing on Patient Outcomes
Melanie Collazo-Valencia, Abilene Christian University
STUDENT ORAL SESSION 9 - FRI 4:00PM-5:00PM

4:20-4:40 p.m.
Active Liberty and the Merchant of Venice: How the Interpretation of Legal Language Can Influence the Outcomes of the Justice System
Makinna McGinnis, University of Wisconsin - La Crosse

BUSINESS BUILDING 210
Political Science
4:00-4:20 p.m.
"Theft of American Prosperity": An Analysis of the H1b Visa Program
Marina Smokey, Bridgewater State University

4:20-4:40 p.m.
A Reevaluation of What Leads to Terrorist Activity
Ryan Appleyard Appleyard, William Peace University

BUSINESS BUILDING 207
English
4:00-4:20 p.m.
Jazz: From America, To Japan
Ashley Pham, University of the Pacific

4:20-4:40 p.m.
Juvenilism: A New Theoretical Perspective on the Origins and Mechanics of Contemporary Literary Portrayals of Abused Children
Christopher Morris, Eastern Connecticut State University

BUSINESS BUILDING 209
English
4:00-4:20 p.m.
The Deadly Desire for a “Woman’s Touch” in Charles Chesnutt’s House Behind the Cedars
Madysson Belden, Hamline University

4:20-4:40 p.m.
The Feminine Gaze: How It Has Come Far but Not Far Enough
Emily Moore, Georgia College and State University

BUSINESS BUILDING 212
Political Science
4:20-4:40 p.m.
Time Series Analysis of the Effectiveness of ICC Intervention in Colombia
Nadia El Mouldi, St. Olaf College

4:40-5:00 p.m.
Military in the Arab Spring: A Comparative Analysis of Egypt and Tunisia
Ahana Dave, Ithaca College

CENTER FOR TRANSFORMATIVE LEARNING 117
History
4:00-4:20 p.m.
Texas Disability History: Texas’ Relationship with Eugenics
Jacob Cunningham, University of Texas at Arlington

4:20-4:40 p.m.
Eucharistic Devotion and Bodily Miracles in the Lives of Saints Christina Mirabilis and Lutgard of Aywieres
Stephanie Berton, Oklahoma State University

4:40-5:00 p.m.
Eugenics in U.S. Policy in the Early Twentieth Century
Maribelle Perrigo, John Brown University

CENTER FOR TRANSFORMATIVE LEARNING 118
History
4:00-4:20 p.m.
Pressure to Produce- Princess Charlotte to Queen Victoria
Rebekah Mills, University of Central Oklahoma

4:20-4:40 p.m.
Profiteering and Mismanagement in the New York City Housing Market 1940-1960
Benjamin Cohn, City University of New York-Brooklyn College

4:40-5:00 p.m.
Race and the Navigation of Transportation Networks: African American Tactics and the Anxieties of Travel, 1900-1960
Arion Dominique, Messiah College

CENTER FOR TRANSFORMATIVE LEARNING 109
Geography & Earth Sciences
4:00-4:20 p.m.
The Homogeneity of Community Areas in Chicago
Jonathon Prehn, Elmhurst College

4:20-4:40 p.m.
An Everyday Politics of Adolescence in Hanoi, Vietnam
Madeleine Hykes, McGill University, Montreal (Quebec)

4:40-5:00 p.m.
Digging into Ditches: A Historical and Geographic Analysis of Delmarva’s Agricultural Drainage Ditches
Rachel Pierson, Salisbury University

CENTER FOR TRANSFORMATIVE LEARNING 101
Anthropology & Archeology
4:00-4:20 p.m.
An Investigation of the Ethno-meteorological Knowledge of the Kapon Akawaio People of Kako and Phillipai, Upper Mazaruni
Romario Hastings, University of Guyana

4:20-4:40 p.m.
A Tale of Two Worlds: Analyzing the Role of Bretonn Woods Development Discourse in Shaping Power Differences Between the Developed and Developing Worlds
Junmey Wang, Messiah College

4:40-5:00 p.m.
The Lore of Gipsydom in Wuthering Heights; From Gypsy Brat to Gipsy Gentleman
Tara Ward, Salisbury University

BUSINESS BUILDING 209
Political Science
4:00-4:20 p.m.
Man’s Best Friend, or Man’s Biggest Profit: How the Economy Encourages Violence Towards Dogs
jessica keister, Salisbury University

4:20-4:40 p.m.
Military in the Arab Spring: A Comparative Analysis of Egypt and Tunisia
Ahana Dave, Ithaca College

BUSINESS BUILDING 211
Political Science
4:20-4:40 p.m.
The Homogeneity of Community Areas in Chicago
Jonathon Prehn, Elmhurst College

4:20-4:40 p.m.
An Everyday Politics of Adolescence in Hanoi, Vietnam
Madeleine Hykes, McGill University, Montreal (Quebec)

4:40-5:00 p.m.
Digging into Ditches: A Historical and Geographic Analysis of Delmarva’s Agricultural Drainage Ditches
Rachel Pierson, Salisbury University
<table>
<thead>
<tr>
<th>TIME</th>
<th>SESSION</th>
<th>LOCATION</th>
<th>TITLE</th>
<th>PRESENTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>4:00-4:20 p.m.</td>
<td>History</td>
<td>CENTER FOR TRANSFORMATIVE</td>
<td>Unpacking Livingstone: De-Constructing the Travelogues of Dr. David Livingstone</td>
<td>Samantha DiFalco, Ithaca College</td>
</tr>
<tr>
<td>4:20-4:40 p.m.</td>
<td>History</td>
<td>BUILDING 237</td>
<td>Music’s Use as a Mnemonic to Increase the Recall of Information in College Students</td>
<td>Morgan Corona, Southern Oklahoma State University</td>
</tr>
<tr>
<td>4:40-5:00 p.m.</td>
<td>History</td>
<td>CENTER FOR TRANSFORMATIVE</td>
<td>Silence and Screams: Women's Options and Oppressions in Maghrebi Cinema</td>
<td>Genevieve Berendt, University of Minnesota - Morris</td>
</tr>
<tr>
<td>4:00-4:20 p.m.</td>
<td>Film/Photography Studies</td>
<td>COMMUNICATIONS BUILDING 121</td>
<td>Psychological Distress and Isolation in My Short Film “21 Missed Calls from Mom”</td>
<td>Kathryn Brown, Juniata College</td>
</tr>
<tr>
<td>4:20-4:40 p.m.</td>
<td>Film/Photography Studies</td>
<td>COMMUNICATIONS BUILDING 204</td>
<td>Impact of Perceived Ethnicity and/or Gender on Pre-service Elementary Teachers’ Professional Noticing Skills</td>
<td>David Brown, University of Kentucky</td>
</tr>
<tr>
<td>4:40-5:00 p.m.</td>
<td>Film/Photography Studies</td>
<td>COMMUNICATIONS BUILDING 206</td>
<td>Implications of Introversion and Extraversion on Pedagogical Effectiveness in University Language Courses</td>
<td>Erin Yusko, University of Central Oklahoma</td>
</tr>
<tr>
<td>4:00-4:20 p.m.</td>
<td>Music</td>
<td>COMMUNICATIONS BUILDING 200</td>
<td>Science Fiction Snobbery: Where Do Superhero Movies Fit In?</td>
<td>Shelby Muckler, Jacksonville University</td>
</tr>
<tr>
<td>4:20-4:40 p.m.</td>
<td>Music</td>
<td>COMMUNICATIONS BUILDING 210</td>
<td>Ways to Assess Views of Engineering in Science (WAVES)</td>
<td>Ashley Dunn, University of Kentucky</td>
</tr>
<tr>
<td>4:40-5:00 p.m.</td>
<td>Music</td>
<td>COMMUNICATIONS BUILDING 211</td>
<td>Underwater Behavior of Gentoo (Pygoscelis papua) Penguins</td>
<td>Amanda Lehnar, Oakland University</td>
</tr>
<tr>
<td>4:00-4:20 p.m.</td>
<td>Dance</td>
<td>COMMUNICATIONS BUILDING 211</td>
<td>Efficacy of Mental Imagery for Technical</td>
<td></td>
</tr>
</tbody>
</table>

**STUDENT ORAL SESSION 9 - FRI 4:00PM-5:00PM**
STUDENT ORAL SESSION 9 - FRI 4:00PM-5:00PM

EDUCATION BUILDING 208
Microbiology & Immunology
4:00-4:20 p.m.
Antimicrobial Activity of Cinnamon Oil Nanoemulsion on Multidrug-Resistant Acinetobacter baumannii
Taylor Jones, University of Central Oklahoma

4:20-4:40 p.m.
Determination of the Effect of G Protein-coupled Receptors on the Cell Surface Expression of Inward Rectifier Potassium Channel Kir7.1
Oluwatosin Aluko, University of Michigan

4:40-5:00 p.m.
Does Natural Selection Differentially Mold the Distribution Patterns of Transposable Elements in Bacteria with Multiple Chromosomes?
Brittany Geiler, State University of New York-Potsdam

EDUCATION BUILDING 210
Engineering/Engineering Technology
4:00-4:20 p.m.
Effects of Woodchip Bioreactors on Water Quality
Alexis Slade, Iowa State University

4:20-4:40 p.m.
The Effects of Phenylalanine, Retinoic Acid, and Diethylaminoobenzaldehyde on Cell Migration
McKayla Muse, University of Central Oklahoma

4:40-5:00 p.m.
The MicroRNA MiR-18a Regulates Photoreceptor Development in the Zebrafish Retina
Emily Giaffre, University of West Florida

EDUCATION BUILDING 214
Biology
4:00-4:20 p.m.
The Effects of Glyphosate on Wheat and Native Grass Growth, Development, and Reproduction When Grown in Prairie and Agricultural Field Sails
China Bohn, Montana State University - Northern

4:20-4:40 p.m.
The Effects of Gestational Psychological Stress on Neonatal Mouse Intestinal Development
Juhi Shah, University of Alabama at Birmingham

4:40-5:00 p.m.
TRPC1 Is an Important Target of AMPKα in Maintaining Pulmonary Endothelial Barrier Function
Yilan Liu, University of Alabama at Birmingham

EDUCATION BUILDING 301
Chemistry
4:00-4:20 p.m.
Synthesis of Stereo Analog for the Development of Precision Therapeutic Drugs
Gianni Manginelli, University of Oklahoma Norman Campus

4:20-4:40 p.m.
The Influence of Acidity and Copper Exposure on Copper Accumulation in the Pond Snail, Lymnaea stagnalis
Francis Alip, Jacksonville University

4:40-5:00 p.m.
The Influence of Acidity and Copper Exposure on Physiological Responses in the Pond Snail, Lymnaea stagnalis
Kyla Siemens, Jacksonville University

EDUCATION BUILDING 302
Economics
4:00-4:20 p.m.
The Effect of Inflation Targeting on Foreign Direct Investment in Developing Countries
Iulia Vasileva, Lafayette College

4:20-4:40 p.m.
The Impact of Tradable Carbon Credits on Washington State Forestry
Foster Robertson, Pacific Lutheran University

4:40-5:00 p.m.
The Quantification of Morality and Human Behavior: An Issue with the Mathematization in Economics
Christopher Miler, University of Central Oklahoma

EDUCATION BUILDING 304
Economics
4:00-4:20 p.m.
Joining a Pyramid Scheme: The Influence of Risk and Time Preference in Consumer Decision Making
Joshua York, Hamline University

4:20-4:40 p.m.
Latino Immigrants and the American Economy
Allison Smith, Eastern Washington University

4:40-5:00 p.m.
Macroeconomic Effects of Financial Openness on Developing Countries in Inflation Targeting Regimes
Brendan McNamara, Lafayette College

EDUCATION BUILDING 306
Physics
4:00-4:20 p.m.
Surface Enhanced Raman Spectroscopy Using Photonic Crystals
Opeyemi Arogundade, Hamline University

4:20-4:40 p.m.
Three-dimensionality of One- and Two-layer Electromagnetically Driven Thin-layer Flows
Benjamin Martell, University of Rochester

4:40-5:00 p.m.
Using X-Rays to Probe the Molecular Structure of Ionic Liquids
Sven Marnauzs, North Central College

EDUCATION BUILDING 308
Marketing
4:00-4:20 p.m.
Parallel Parking Versus Bike Lanes at the University of West Georgia (UWG)
Amber Luxbacher, University of West Georgia

4:40-5:00 p.m.
Space Propaganda: Using Legacy to Inspire Exploration
Daniel Thompson, Southwestern Oklahoma State University

EDUCATION BUILDING 310
Cell & Molecular Biology
4:20-4:40 p.m.
The Effects of Gestational Psychological Stress on Neonatal Mouse Intestinal Development
Juhui Shah, University of Alabama at Birmingham

4:40-5:00 p.m.
TRPC1 Is an Important Target of AMPKα in Maintaining Pulmonary Endothelial Barrier Function
Yilan Liu, University of Alabama at Birmingham
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Location</th>
<th>Title</th>
<th>Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>4:00-4:20 p.m.</td>
<td>A Comparison of the Effect of Sexual Assault Micro-Interventions on Rape Myth Acceptance and Empathy</td>
<td>NIGH UNIVERSITY CENTER 300 Psychology</td>
<td>Sydney Rohmann, Eastern Illinois University</td>
<td></td>
</tr>
<tr>
<td>4:40-5:00 p.m.</td>
<td>Views on Climate Change</td>
<td>NIGH UNIVERSITY CENTER 301</td>
<td>Olivia Diaz, Florida Atlantic University</td>
<td></td>
</tr>
<tr>
<td>4:40-4:20 p.m.</td>
<td>Fear-Potentiated Startle and Opioid Use</td>
<td>NIGH UNIVERSITY CENTER 302</td>
<td>Bianca Sarrecchia, Kennesaw State University</td>
<td></td>
</tr>
<tr>
<td>4:40-5:00 p.m.</td>
<td>The Relationship Between Analytic vs. Creative Thinking in Conspiracy Theory Ideation</td>
<td>NIGH UNIVERSITY CENTER 303</td>
<td>Jasmine Mitchell, Dominican University of California</td>
<td></td>
</tr>
<tr>
<td>4:20-4:40 p.m.</td>
<td>Microfinance and Women's Agricultural Entrepreneurship in Senegal</td>
<td>NIGH UNIVERSITY CENTER 304</td>
<td>Harvey Erik, Virginia Polytechnic Institute &amp; State University</td>
<td></td>
</tr>
<tr>
<td>4:20-4:40 p.m.</td>
<td>Misogyny in American Culture</td>
<td>NIGH UNIVERSITY CENTER 305</td>
<td>Jordan Hawthorn, Kennesaw State University</td>
<td></td>
</tr>
<tr>
<td>4:20-4:40 p.m.</td>
<td>Predictions of the Dynamic Characteristics and Responses of Building Floors Susceptible to Excessive Vibrations</td>
<td>OLD NORTH 205 Architecture &amp; Interior Design</td>
<td>Kelley France, University of Central Oklahoma</td>
<td></td>
</tr>
<tr>
<td>4:20-4:40 p.m.</td>
<td>Reawakening Quality in Architecture A Contemporary Idiom of Pattern Language</td>
<td>OLD NORTH 206 Mathematics</td>
<td>Christopher Richardson, Kennesaw State University</td>
<td></td>
</tr>
<tr>
<td>4:20-4:40 p.m.</td>
<td>Secure Data Acquisition and Transfer for the Internet of Things</td>
<td>OLD NORTH 207 Environmental Studies &amp; Sciences</td>
<td>Melissa Nichols, University of West Florida</td>
<td></td>
</tr>
<tr>
<td>4:20-4:40 p.m.</td>
<td>The Effect of Mirroring Movements on Emotion Empathy and Detection</td>
<td>OLD NORTH 208 Neuroscience</td>
<td>Kaitlyn Krug, Westminster College</td>
<td></td>
</tr>
<tr>
<td>4:20-4:40 p.m.</td>
<td>Reflecting on The Immigration and Native Experience Through Art and Poetry</td>
<td>OLD NORTH 211 Nursing</td>
<td>Libby Kirkpatrick, Lubbock Christian University</td>
<td></td>
</tr>
<tr>
<td>4:20-4:40 p.m.</td>
<td>The Effect of Mortality Salience on Compromising Mate Selection Standards in Homosexual and Heterosexual Individuals</td>
<td>UNIVERSITY OF CENTRAL OKLAHOMA</td>
<td>Jolene Potter, Eastern Connecticut State University</td>
<td></td>
</tr>
<tr>
<td>4:40-5:00 p.m.</td>
<td>Religious Observations of the Absentee Shawnee Nation</td>
<td>OLD NORTH 205 Architecture &amp; Interior Design</td>
<td>Cierra Lowe, University of Central Oklahoma</td>
<td></td>
</tr>
<tr>
<td>4:20-4:40 p.m.</td>
<td>Predictions of the Dynamic Characteristics and Responses of Building Floors Susceptible to Excessive Vibrations</td>
<td>OLD NORTH 206 Mathematics</td>
<td>Harvey Erik, Virginia Polytechnic Institute &amp; State University</td>
<td></td>
</tr>
<tr>
<td>4:20-4:40 p.m.</td>
<td>Splice Variant for Foxp2 and Its Impacts on Vocalization and Behavior of Juvenile Rats</td>
<td>OLD NORTH 208 Neuroscience</td>
<td>Kareem Omeish, Northern Virginia Community College (Extended Learning Institute)</td>
<td></td>
</tr>
<tr>
<td>4:20-4:40 p.m.</td>
<td>Secure Data Acquisition and Transfer for the Internet of Things</td>
<td>OLD NORTH 207 Environmental Studies &amp; Sciences</td>
<td>Melissa Nichols, University of West Florida</td>
<td></td>
</tr>
<tr>
<td>4:20-4:40 p.m.</td>
<td>The Effect of Mortality Salience on Compromising Mate Selection Standards in Homosexual and Heterosexual Individuals</td>
<td>UNIVERSITY OF CENTRAL OKLAHOMA</td>
<td>Jolene Potter, Eastern Connecticut State University</td>
<td></td>
</tr>
<tr>
<td>4:40-5:00 p.m.</td>
<td>Similar Ground-dwelling Arthropod Communities Across an Elevational Gradient in a Cloud Rainforest</td>
<td>OLD NORTH 208 Neuroscience</td>
<td>Tyler Souza, Southern Nazarene University</td>
<td></td>
</tr>
<tr>
<td>4:20-4:40 p.m.</td>
<td>Number Talks and Their Effects on Number Sense</td>
<td>OLD NORTH 211 Nursing</td>
<td>Jacob Funkhauser, Eastern Washington University</td>
<td></td>
</tr>
<tr>
<td>4:20-4:40 p.m.</td>
<td>The Effects of Methylphenidate and Aza Food Dyes on Hyperactivity in Male Sprague Dawley Rats</td>
<td>OLD NORTH 207 Environmental Studies &amp; Sciences</td>
<td>Bridget Herlihy, Westminster College</td>
<td></td>
</tr>
<tr>
<td>4:40-5:00 p.m.</td>
<td>Relationship Between Fatigue and Adherence to Endocrine Therapy in Postmenopausal Women with Early Stage Breast Cancer</td>
<td>OLD NORTH 211 Nursing</td>
<td>Erin Zita, University of Pittsburgh School of Nursing</td>
<td></td>
</tr>
<tr>
<td>4:20-4:40 p.m.</td>
<td>Relationship Between Self-reported Cognitive Functioning and Adherence in Postmenopausal Women Receiving Endocrine Therapy</td>
<td>OLD NORTH 211 Nursing</td>
<td>Amy Hughes, University of Pittsburgh School of Nursing</td>
<td></td>
</tr>
</tbody>
</table>
STUDENT ORAL SESSION 10 - SAT 8:30AM-9:30AM
BUSINESS BUILDING 105 Journalism
8:30-8:50 a.m.
“Entering the Digital Age: One University Newspaper’s Journey”
Megan Palmer, Southern New Hampshire University

8:50-9:10 a.m.
Controversies Around Al Jazeera
Arunima Bhattacharjee, University of Oregon

9:10-9:30 a.m.
How Are Men and Women Portrayed Differently in News Stories Involving Sexual Assault? An Examination of the Brock Turner Case
Samantha Burkiewicz, Eastern Illinois University

BUSINESS BUILDING 108 Interdisciplinary Studies
8:30-8:50 a.m.
Refugee Mental Health: Expressive Arts Therapies and Prosocial Activities in the Treatment of War-related Trauma in Children and Adolescents
Amanda Sloan, California University of Pennsylvania

8:50-9:10 a.m.
Responding to Intergenerational Incestuous Abuse
Charlie Shih, University of Washington, Seattle

9:10-9:30 a.m.
Saints Don’t Cry: Clergy’s Attitudes Towards Mental Health Services and Experiences of Burnout
Abbie Williams, Elon University

BUSINESS BUILDING 110 Philosophy & Ethics
8:30-8:50 a.m.
The Ladder
Hailey Stewart, Rogers State University - Claremore Campus

8:50-9:10 a.m.
The Pursuit of Enhanced Physician Empathy and Perspective Through Fiction
Raisa Alexis Santos, City University of New York-Brooklyn College

9:10-9:30 a.m.
When Does Place Happen: Towards the Anthropocene as a Deconstructive Object
Jacob Smith, University of Oklahoma Norman Campus

BUSINESS BUILDING 112 Literature
8:30-8:50 a.m.
Japanese and Korean Gender and Power Relationships in Colonial Korea from 1910 to 1945
Yuki Minami, University of Tennessee at Knoxville

8:50-9:10 a.m.
John Donne’s “The Flea”: a French Studies Approach to the Origin of Poetic Conceit
Andrea Dillingham, University of Central Oklahoma

BUSINESS BUILDING 125 Literature
8:30-8:50 a.m.
The Perennial Charm and Relevance of Spanish Medieval Ballads
Dora Totoian, University of Portland
9:10-9:30 a.m.  
**The Trickster Across the Pacific: Inspiration and Influence of the Chinese Monkey Story in Contemporary Asian-American Literature**  
Zhishu Wang, University of Wisconsin - Whitewater

**BUSINESS BUILDING 209**  
**English**  
8:50-9:10 a.m.  
*The Mysteries of Lewis' "The Monk"*  
Onur Ayaz, City University of New York- Brooklyn College

9:10-9:30 a.m.  
*The Novel Mystique: Depictions of Women in 1950s Novels*  
Sarah Fender, Bridgewater State University

9:10-9:30 a.m.  
*Orange Is the New Green: a Qualitative Study on Contract Prisons and Their Effect on the Prison Population and Society*  
Desiree Jones, Abilene Christian University

**BUSINESS BUILDING 210**  
**Political Science**  
8:30-8:50 a.m.  
*Aggies Global Observatory*  
Catherine Miner, Utah State University

8:50-9:10 a.m.  
*Amplifying Indigenous Voices in National Environmental Governance*  
Mary Grahniak, Carleton University

**BUSINESS BUILDING 211**  
**Political Science**  
8:30-8:50 a.m.  
*Moral Realism: An Analysis of Theodore Roosevelt’s Foreign Policy*  
Shelby Hanna, Hampden-Sydney College

8:50-9:10 a.m.  
*NGOs’ Influence Leading to Educational Strides in Senegal: A Possible Solution to Financial Success and Independence?*  
Emily Hayes, State University of New York-Geneseo

9:10-9:30 a.m.  
*Pike River Geomorphic and Water Quality Study*  
Nicholas Potter, University of Wisconsin - Parkside

9:10-9:30 a.m.  
*William Wilberforce: The Effects of One Life*  
Jordyn Goodman, University of Nebraska at Kearney
Through Engaging STEM-Related Experiences in a University Setting
Hosam Alkharit, University of Minnesota, Twin Cities

5:00-5:10 a.m.
Inclusion in Morning Meetings
Robin Lauber, James Madison University

9:10-9:30 a.m.
Integrating Multicultural Literature into Eleventh-Grade ELA Curriculum: A Case for Authentic American Literature
Alexis Vanlandingham, Oklahoma Christian University

COMMUNICATIONS BUILDING 206
Education
8:30-8:50 a.m.
Engineering Students’ Perceptions on the Impact and Value of Design Thinking
Kendall Reynolds, Iowa State University

COMMUNICATIONS BUILDING 121
Film/Photography Studies
8:30-8:50 a.m.
The American Language
Michelle Chavez, Cedar Crest College

8:50-9:10 a.m.
The Emergence of Film Studies as an Academic Discipline. A Microhistory of the University of Wisconsin-Milwaukee Film Studies Program
Hugo Ljungbaeck, University of Wisconsin - Milwaukee

9:10-9:30 a.m.
Tim-plate Burton
Jessica Lensman, University of Oklahoma Norman Campus

COMMUNICATIONS BUILDING 200
Music
8:30-8:50 a.m.
Songs of Diversity: Multiculturalism and Identity Within Indo-Canadian Festivals
Philippe Tippins, Carleton University

8:50-9:10 a.m.
Techniques to Alleviate Frustration in the Practice Room
Ashley Shamhart, Eastern Illinois University

9:10-9:30 a.m.
The Analysis and Composition of Classical and Romantic Era Chromaticism
Geoffrey Edwards, Keene State College

EDUCATION BUILDING 204
Education
8:30-8:50 a.m.
Improving Disadvantaged Middle-School Students’ Academic Habits and Interests in STEM

EDUCATION BUILDING 106
Microbiology & Immunology
8:30-8:50 a.m.
Pathogenic Bacteria in the Sunshine State
Janel Clatissie Palomo, Jacksonville University

8:50-9:10 a.m.
Synergetic Antifungal Activity of Amphotericin B, Essential Oils and Low Frequency Ultrasound on Mucormycosis Causing Fungi
Karaleen Anderson, Utah Valley University

9:10-9:30 a.m.
Identifying Properties of Molecules That Enter Bacterial Cells Using a Hand-curated Dataset
Lauren Harris, High Point University

EDUCATION BUILDING 214
Biology
8:30-8:50 a.m.
The Pollination and Reproductive Biology of Thermopsis dioscarica in the Central Rocky Mountains
Olufunny Awolaja, University of Northern Colorado

8:50-9:10 a.m.
The Search for a Novel Repressor Gene in Cluster M Bacteriophages
Erin Cafferty, Western Carolina University

9:10-9:30 a.m.
Variation in Genetic Composition of O. annularis and O. franksi and Their Endosymbionts at Different Depths
Savanah Leidholdt, Montana State University

EDUCATION BUILDING 208
Microbiology & Immunology
8:30-8:50 a.m.
Effects of Anthropogenically-derived Antibiotics on Microbial Distribution and Diversity
Maggie Perrel, University of Minnesota - Crookston

8:50-9:10 a.m.
Evaluating Intestinal GABA Levels and Epithelial Integrity in a Murine Model of CNS Inflammatory Demyelination
Christina Ramelow, Eastern Washington University

9:10-9:30 a.m.
Identifying Properties of Molecules That Enter Bacterial Cells Using a Hand-curated Dataset
Lauren Harris, High Point University

EDUCATION BUILDING 301
Chemistry
8:30-8:50 a.m.
The Sound of Photocaroustics
Rachel Peters, University of Tennessee at Chattanooga

8:50-9:10 a.m.
The Synthesis, Cooperative Bond Activation, and Catalysis of Aluminum Ligand-based Metallamutanes
Sheila Tran, University of Memphis

9:10-9:30 a.m.
Using Surface Enhanced Raman Scattering for the Detection of Melamine
Jasmine Thomas, Albany State University

EDUCATION BUILDING 210
Engineering/Engineering Technology
8:30-8:50 a.m.
Flexible Wireless Sensor Network for Lung Motion Detection Using a 3D Motion Platform
amjad barghouthi, University of Central Oklahoma

8:50-9:10 a.m.
Flow Simulation of a Pebble-Bed Reactor with Staggered-Pebble Arrangement
Julian Spangler, Kennesaw State University

9:10-9:30 a.m.
Fuzzy Logic-Based Alternatives for Multiple Choice Problems
Aamr Hasanjee, University of Central Oklahoma
STUDENT ORAL SESSION 10 - SAT 8:30AM-9:30AM

EDUCATION BUILDING 302
Economics
8:30-8:50 a.m.
The Short End of the Stick: Income Inequality and Populist Sentiment in Europe
Austin Botelho, Lafayette College

9:00-9:30 a.m.
Monte Carlo Simulation of Photodynamic Therapy for Treatment of Infected Abscesses
Mattison Flakus, University of Rochester

EDUCATION BUILDING 312
Cell & Molecular Biology
8:30-8:50 a.m.
Verification of CpG Sites from Breast Milk Cells Via Pyrosequencing
Angela Wei, University of Kentucky

8:50-9:10 a.m.
Trade Specialization: A Disaggregated Measurement for Utah
Andrew Hunt, Utah Valley University

9:10-9:30 a.m.
Relationship Between Opioid Prescriptions and Opioid Overdoses: Insight from California Counties
Joel Earlywine, Pacific Lutheran University

EDUCATION BUILDING 304
Economics
8:50-9:10 a.m.
Non-Cooperative Greens
Dane Neville, University of Wisconsin - Stout

9:10-9:30 a.m.
Effect of Maternal Depression and Anti-depressant Treatment on Adult Hippocampal Neurogenesis in Rat Offspring
Evian Albaiz, Wayne State University

EDUCATION BUILDING 310
Marketing
8:30-8:50 a.m.
Visually Documenting the Irony of Vaporware
Kai Ammons, University of Texas- Rio Grande Valley

9:00-9:30 a.m.
Gender Differences in Social Anxiety as a Function of Uncertainty and Social Evaluation
Stephanie Powell, Western Carolina University

EDUCATION BUILDING 311
Biological Engineering
8:30-8:50 a.m.
Machine Olfaction Using Deep Learning Artificial Neural Networks
Stephen Hoover, Florida Atlantic University

9:00-9:30 a.m.
Manipulation of Biological Matter Using Electrodeless Dielectrophoresis
Nathan Johnson, North Dakota State University (Nlt)

STUDENT ORAL SESSION 10 - SAT 8:30AM-9:30AM

NIGH UNIVERSITY CENTER 304
Sociology
8:30-8:50 a.m.
Racial Civil Rights: Comparing Participation in the Civil Rights Movement to Contemporary Austin, Texas
Rachel Leader, St. Edward’s University

8:50-9:10 a.m.
Racially Motivated Slavery in the Modern United States: Does Our Justice System Unfairly Incarcerate and Punish People Based on Race?
Claire Ehr, Valparaiso University

9:10-9:30 a.m.
Music: Society and the New Gender Pronoun Abstract
Ta’Mar Coby, Texas A&M University - Texarkana

NIGH UNIVERSITY CENTER 312
Women and Gender Studies
9:10-9:30 a.m.
The Phone as a Symbolic Device in Contemporary Female Hip-Hop
Anna Dore, University of Central Oklahoma

NIGH UNIVERSITY CENTER 314
Information Technology
8:30-8:50 a.m.
A Virtual Information Assistant for the CUNY Guttman Community College Using Amazon Alexa
Christopher Mak, City University of New York- Guttman Community College

OLD NORTH 205
Architecture & Interior Design
8:30-8:50 a.m.
Shrinking Cities in the Rust Belt: An Ecological Urban Design Intervention
Dakota Lewis, Kent State University
### STUDENT ORAL SESSION 10 - SAT 8:30AM-9:30AM

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Presenter</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:50-9:10 a.m.</td>
<td><strong>Student Mixology: The Integration of Underprivileged Students in Student Housing</strong>&lt;br&gt;Brandon Arroyo, Kennesaw State University</td>
<td></td>
</tr>
<tr>
<td>9:10-9:30 a.m.</td>
<td><strong>Study of the Multiple Tuned Mass Damper to Reduce Vibration Serviceability Issues</strong>&lt;br&gt;Stephanie Renard, Virginia Polytechnic Institute &amp; State University</td>
<td></td>
</tr>
<tr>
<td></td>
<td>OLD NORTH 206&lt;br&gt;<strong>Mathematics</strong>&lt;br&gt;9:10-9:30 a.m.&lt;br&gt;Rainbows in Graph Products&lt;br&gt;Hunter Rehm, University of Wisconsin - La Crosse</td>
<td></td>
</tr>
<tr>
<td></td>
<td>OLD NORTH 207&lt;br&gt;<strong>Environmental Studies &amp; Sciences</strong>&lt;br&gt;8:50-9:10 a.m.&lt;br&gt;The Growth of Synechococcus Species When Compared to New and Used Motor Oil, Glyphosate, and Lambda-cyhalothrin&lt;br&gt;Desiree Evjen, Mount Saint Mary’s University</td>
<td></td>
</tr>
<tr>
<td>9:10-9:30 a.m.</td>
<td><strong>The Social Impact of Climate Change in Dakar, Senegal</strong>&lt;br&gt;Elana Evenden, State University of New York-Geneseo</td>
<td></td>
</tr>
<tr>
<td></td>
<td>OLD NORTH 208&lt;br&gt;<strong>Neuroscience</strong>&lt;br&gt;8:50-9:10 a.m.&lt;br&gt;The Role of APOE Genotype, Sex, and 17β-estradiol in Memory Consolidation in a Mouse Model of Alzheimer’s Disease&lt;br&gt;Sarah Philippi, University of Wisconsin - Milwaukee</td>
<td></td>
</tr>
</tbody>
</table>

### STUDENT ORAL SESSION 11 - SAT 9:45AM-10:45AM

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Presenter</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:25-10:45 a.m.</td>
<td><strong>What Modern Americans Could Learn from Classical Ethics</strong>&lt;br&gt;Peyton Owen, Eastern Washington University</td>
<td></td>
</tr>
<tr>
<td></td>
<td>BUSINESS BUILDING 212&lt;br&gt;<strong>Political Science</strong>&lt;br&gt;9:45-10:05 a.m.&lt;br&gt;What Is “Sanctuary Policy”&lt;br&gt;Robert Kirk, University of Central Oklahoma</td>
<td></td>
</tr>
<tr>
<td>10:05-10:25 a.m.</td>
<td><strong>Steps Towards Diversifying the Nursing Profession and the Impact on Future Health Care</strong>&lt;br&gt;Merelyn Aragon, State University of New York-Brockport</td>
<td></td>
</tr>
<tr>
<td></td>
<td>BUSINESS BUILDING 110&lt;br&gt;<strong>Nursing</strong>&lt;br&gt;8:50-9:10 a.m.&lt;br&gt;Steps Towards Diversifying the Nursing Profession and the Impact on Future Health Care&lt;br&gt;Merelyn Aragon, State University of New York-Brockport</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>The Association Between Musculoskeletal Symptoms and Adherence to Endocrine Therapy for Breast Cancer</strong>&lt;br&gt;Valerie O’Loughlin, University of Pittsburgh</td>
<td></td>
</tr>
<tr>
<td></td>
<td>OLD NORTH 211&lt;br&gt;<strong>Journalism</strong>&lt;br&gt;10:05-10:25 a.m.&lt;br&gt;How the Mainstream Media Derailed Healthcare Reform&lt;br&gt;Ahana Dave, Ithaca College</td>
<td></td>
</tr>
<tr>
<td></td>
<td>BUSINESS BUILDING 108&lt;br&gt;<strong>Interdisciplinary Studies</strong>&lt;br&gt;9:45-10:05 a.m.&lt;br&gt;Traditional Chinese Medicine: Its Incorporation in Japan and Possibilities of Integration in the United States&lt;br&gt;Sukeji Mikaya, Luther College</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Translating Complex Research into an Accessible Educational Tool for Undergraduate Students</strong>&lt;br&gt;Chazman Childers, Florida International University</td>
<td></td>
</tr>
<tr>
<td>10:25-10:45 a.m.</td>
<td><strong>Instructional Heuristics in Innovative Educational Practices</strong>&lt;br&gt;Steven Ahearnsky, Iowa State University</td>
<td></td>
</tr>
<tr>
<td></td>
<td>BUSINESS BUILDING 105&lt;br&gt;<strong>Political Science</strong>&lt;br&gt;9:45-10:05 a.m.&lt;br&gt;What Is “Sanctuary Policy”&lt;br&gt;Robert Kirk, University of Central Oklahoma</td>
<td></td>
</tr>
<tr>
<td>10:05-10:25 a.m.</td>
<td><strong>What Is “Sanctuary Policy”</strong>&lt;br&gt;Robert Kirk, University of Central Oklahoma</td>
<td></td>
</tr>
<tr>
<td></td>
<td>CENTER FOR TRANSFORMATIVE LEARNING 109&lt;br&gt;<strong>Anthropology &amp; Archeology</strong>&lt;br&gt;9:45-10:05 a.m.&lt;br&gt;The Rise and Fall of Sharecropping in Brunswick County, Virginia&lt;br&gt;Larissa Reed, American University</td>
<td></td>
</tr>
<tr>
<td>10:25-10:45 a.m.</td>
<td><strong>What Modern Americans Could Learn from Classical Ethics</strong>&lt;br&gt;Carissa Teeters, Eastern Washington University</td>
<td></td>
</tr>
<tr>
<td></td>
<td>BUSINESS BUILDING 110&lt;br&gt;<strong>Philosophy &amp; Ethics</strong>&lt;br&gt;9:45-10:05 a.m.&lt;br&gt;What Modern Americans Could Learn from Classical Ethics&lt;br&gt;Carissa Teeters, Eastern Washington University</td>
<td></td>
</tr>
<tr>
<td>10:05-10:25 a.m.</td>
<td><strong>Water Systems of Antiquity: The Effect of Water Management on Western Civilization</strong>&lt;br&gt;Tucker McCoy, University of Central Oklahoma</td>
<td></td>
</tr>
<tr>
<td></td>
<td>CENTER FOR TRANSFORMATIVE LEARNING 109&lt;br&gt;<strong>Geography &amp; Earth Sciences</strong>&lt;br&gt;9:45-10:05 a.m.&lt;br&gt;Remote Sensing Analysis of Permanent Agricultural Dry-up&lt;br&gt;Jillian LaRoe, Colorado State - Colorado State University - Cooperative Extension- Jefferson Co</td>
<td></td>
</tr>
<tr>
<td>Time</td>
<td>Session</td>
<td>Location</td>
</tr>
<tr>
<td>--------------</td>
<td>--------------------------------------------------------------------------</td>
<td>-----------------------------------------------</td>
</tr>
<tr>
<td>10:25-10:45 a.m.</td>
<td><strong>Where Have All the Good Students Gone?</strong></td>
<td><strong>Communications Building 204</strong> History</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10:05-10:25 a.m.</td>
<td><strong>The Effects of BCL3 on Migration in Chronic Lymphocytic Leukemia</strong></td>
<td><strong>Education Building 106</strong> Microbiology &amp; Immunology</td>
</tr>
<tr>
<td>10:25-10:45 a.m.</td>
<td><strong>The SMARTS Database: Mining Publically-available Information to Enable Antibiotic Discovery</strong></td>
<td><strong>Education Building 203</strong> Engineering/Engineering Technology</td>
</tr>
<tr>
<td>10:05-10:25 a.m.</td>
<td><strong>Which Phylogeny Better Fits Species Trait Data: Time or Molecular Tree?</strong></td>
<td><strong>Education Building 210</strong> Engineering/Engineering Technology</td>
</tr>
<tr>
<td>10:25-10:45 a.m.</td>
<td><strong>The SMARMS Database: Mining Publically-available Information to Enable Antibiotic Discovery</strong></td>
<td><strong>Education Building 208</strong> Microbiology &amp; Immunology</td>
</tr>
<tr>
<td>10:25-10:45 a.m.</td>
<td><strong>How Supplemental Iron Impacts the Antibacterial Effects of Manuka Honey</strong></td>
<td><strong>Education Building 204</strong> Health Sciences &amp; Public Health</td>
</tr>
</tbody>
</table>
### Student Oral Session 11 - Sat 9:45AM-10:45AM

#### Education Building 311

**Biological Engineering**

**9:45-10:05 a.m.**

*Regenerative Temporomandibular Joint Implants*

Kristen Smith, University of Oklahoma Norman Campus

**10:05-10:25 a.m.**

*Susceptibility of Oxidative Damage in Proteins Due to Their Secondary Structure*

Raeesa Kabir, University of Minnesota, Twin Cities

**10:25-10:45 a.m.**

*African American Masculinity & Perceived Discrimination (Internalization and Externalization of Emotions)*

Shane Fossie, University of Wisconsin - Whitewater

#### Nigh University Center 301

**Sociology**

**9:45-10:05 a.m.**

*Youth Activism in Environmental and Climate Justice Solutions*

Laura Donovan, University of Wisconsin - Stout

**10:05-10:25 a.m.**

*Characterization of Mitochondrial Variation Between Oocytes Harvested from Lean and Obese Pigs*

Madison Grohlik, Auburn University

**10:25-10:45 a.m.**

*The Evolution of Media Narratives of School Shootings in the Media*

Jensen Collins, Elon University

#### Nigh University Center 304

**Sociology**

**9:45-10:05 a.m.**

*Social Exchange Theory and Love*

Allison Hall, Texas A&M University - Texarkana

**10:05-10:25 a.m.**

*The 100 Day Closet Project: Cultural Blindness and the Effects on Those Beneath the Poverty Line in Developed Countries*

Emily Regan, Utah Valley University

**10:25-10:45 a.m.**

*Vertical Essence: The Rehabilitation of Social Housing*

Didier Porter, Kennesaw State University

### Other Sessions

- **10:25-10:45 a.m.**
  - *Where Two Become One: A Qualitative Examination of Emerging Adults' Ideal Wedding Receptions*
    
  Shannon Duff, University of Nebraska at Kearney

- **10:05-10:25 a.m.**
  - *Race and Gender at Work: Men's and Women's Experiences*
    
  Alleluia Musahyimana, Eastern Illinois University

- **10:05-10:25 a.m.**
  - *Race, Public Opinions, and Capital Punishment*
    
  Sha‘ Kurra Evans, Iowa State University

- **10:25-10:45 a.m.**
  - *The Human and Environmental Impacts of Foreclosure: Washington Park and Sherman Park*
    
  Teonna Cooksey, University of Wisconsin - Milwaukee

- **10:05-10:25 a.m.**
  - *Political Party and Issue Opinions: Do Americans Really Stand with Their Party?*
    
  Kelsey Hunter, Doane College

- **10:25-10:45 a.m.**
  - *Where Two Become One: A Qualitative Examination of Emerging Adults' Ideal Wedding Receptions*
    
  Shannon Duff, University of Nebraska at Kearney
<table>
<thead>
<tr>
<th>Session Time</th>
<th>Location</th>
<th>Topic</th>
<th>Presenter</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:05-10:25 a.m.</td>
<td>OLD NORTH 206</td>
<td>Mathematics</td>
<td>Kiley Shannon</td>
<td>Elon University</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Symmetries of Degree 8 Polynomials</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10:25-10:45 a.m.</td>
<td>OLD NORTH 206</td>
<td>The Firefighter Problem: Containing Fires on Grids</td>
<td>Emily Menendez</td>
<td>Eastern Connecticut State University</td>
</tr>
<tr>
<td>9:45-10:05 a.m.</td>
<td>OLD NORTH 207</td>
<td>Environmental Studies &amp; Sciences</td>
<td>Matt Edrich</td>
<td>Colorado State University - Cooperative Extension</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Using GIS to Assess How Forest Health Treatments Impact Biodiversity in the San Juan National Forest</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9:45-10:05 a.m.</td>
<td>OLD NORTH 208</td>
<td>Neuroscience</td>
<td>Erin Day</td>
<td>University of Michigan</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Transcranial Direct Current Stimulation in Aphasia</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9:45-10:05 a.m.</td>
<td>OLD NORTH 211</td>
<td>Nursing</td>
<td>Mengchi Li</td>
<td>University of Pittsburgh School of Nursing</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The Associations Between Patient’s Cognitive Function and Caregiver’s Perceived Patient Problem Behaviors and Caregiver’s Vigilance</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10:05-10:25 a.m.</td>
<td>Wellness Center - Kiosk 1 Side C</td>
<td>Contents of a Felidae Coprolite from Domebo, a Paleo-Indian Kill Site</td>
<td>Kacie Foreman</td>
<td>Cameron University</td>
</tr>
<tr>
<td></td>
<td>Wellness Center - Kiosk 32 Side B</td>
<td>The Effects of Prolonged Decomposition on the Structural Integrity of DNA</td>
<td>Alex Cruz</td>
<td>Western Carolina University</td>
</tr>
<tr>
<td></td>
<td>Wellness Center - Kiosk 11 Side A</td>
<td>“He Said, She Said”</td>
<td>Bethany Wilson</td>
<td>University of Nebraska at Kearney</td>
</tr>
<tr>
<td></td>
<td>Wellness Center - Kiosk 11 Side B</td>
<td>[Re]Defining Chandigarb</td>
<td>Dhrueve Patel</td>
<td>Kennesaw State University</td>
</tr>
<tr>
<td></td>
<td>Wellness Center - Kiosk 11 Side C</td>
<td>A New Clinical Model for Ambulatory Care: Focus On Wellness, Rather Than Illness</td>
<td>Rachel Richter</td>
<td>University of Nebraska, Lincoln</td>
</tr>
<tr>
<td></td>
<td>Wellness Center - Kiosk 20 Side A</td>
<td>Unearthing Identity Through Cross Cultural Art: An Implication of Art Curriculum</td>
<td>Fatima Mohamud</td>
<td>University of Central Oklahoma</td>
</tr>
<tr>
<td></td>
<td>Wellness Center - Kiosk 20 Side B</td>
<td>Critical Examinations of Visual Culture’s Impact on the Lowenfeld’s Developmental Stage of Art for Children</td>
<td>Kristen Martin</td>
<td>University of Central Oklahoma</td>
</tr>
<tr>
<td></td>
<td>Wellness Center - Kiosk 20 Side C</td>
<td>Cross-Cultural Significance of Blue and White Ceramics of China and the Netherlands in the 1600s</td>
<td>Warapat Krasaetanont</td>
<td>University of Central Oklahoma</td>
</tr>
<tr>
<td></td>
<td>Wellness Center - Kiosk 17 Side A</td>
<td>Cults of Personality: A Comparative Study of Kim Il-Sung and Nicolae Ceausescu</td>
<td>Blair Summers</td>
<td>University of Central Oklahoma</td>
</tr>
<tr>
<td></td>
<td>Wellness Center - Kiosk 17 Side B</td>
<td>Laughter of Superiority: a Comparison of Commedia Dell’Arte in 16th Century Venice and Amüsierkabarett in Early 20th Century Berlin</td>
<td>Olivia Musgrove</td>
<td>University of Central Oklahoma</td>
</tr>
<tr>
<td></td>
<td>Wellness Center - Kiosk 38 Side A</td>
<td>Tower of Babel: a Comparative of Multilingual Societies in Japan and Belgium During the 16th Century</td>
<td>Michael May</td>
<td>University of Central Oklahoma</td>
</tr>
<tr>
<td></td>
<td>Wellness Center - Kiosk 38 Side B</td>
<td>Art Historical Study of the Trauma of Human Migration by Boat to the United States Since 1970s</td>
<td>Nina Nguyen</td>
<td>University of Central Oklahoma</td>
</tr>
<tr>
<td></td>
<td>Wellness Center - Kiosk 38 Side B</td>
<td>Cults of Mother Goddess: A Comparative Examination Between Renaissance Italy and Egypt in Fourth Century B.C.E</td>
<td>Lyazzat Galilolla</td>
<td>University of Central Oklahoma</td>
</tr>
</tbody>
</table>

**Wellness Center - Kiosk 20 Side C**

**Wellness Center - Kiosk 17 Side A**

**Wellness Center - Kiosk 17 Side B**

**Wellness Center - Kiosk 17 Side C**

**Wellness Center - Kiosk 20 Side A**

**Wellness Center - Kiosk 20 Side B**

**ART HISTORY**

**ART & SOCIETY**
STUDENT POSTER SESSION 1 - THU 10:45AM-11:45AM

ASTRONOMY

Wellness Center - Kiosk 43 Side A
A Cohesive Comparison: CSHELL vs. IShell for Analysis of Emissions of O2 Single Delta in the Martian Atmosphere
Jonathon Nosowitz, Iona College

Wellness Center - Kiosk 43 Side B
Bridgewater State University’s Progress Towards Confirming Exoplanet Candidates
Maria Patrone, Bridgewater State University

BIOCHEMISTRY

Wellness Center - Kiosk 9 Side A
Determining the Interaction of Pex5 with Kinases and the Phosphorylation Status of Peroxisome Proteins
Christina Nguyen, Kennesaw State University

Wellness Center - Kiosk 9 Side B
Expression of Human Gamma-Glutamylcysteine Synthetase
Sevilla Martinez, Texas Woman’s University

Wellness Center - Kiosk 9 Side C
Lipid Metabolomic Analysis of Bladder Cancer Cells Using LCMS Methods
Bliss Baird, University of Oklahoma Norman Campus

Wellness Center - Kiosk 16 Side A
Activation of the mTOR Pathway in Parkinson Disease
Angela Hinchie, University of Kentucky

Wellness Center - Kiosk 16 Side B
Analysis of the DNA Sequence or Structural Specificity on Spacer Uptake by Type II-A CRISPR System
Patrick Lockwood, University of Oklahoma Norman Campus

Wellness Center - Kiosk 16 Side C
Crystallographic Studies of the Coiled Coil Domain of MxK Protein
Anna Maria Asokan, University of Oklahoma Norman Campus

Wellness Center - Kiosk 55 Side A
Hyperexpression of Biofilm-breaking Enzymes and Disturbance of Biofilm from Staphylococcus aureus SA113
Kaylin Shackelford, Northeastern State University

Wellness Center - Kiosk 55 Side B
Modulation of Nerve Growth Factor (NGF) Expression in Trinitrobenzene Sulfonic Acid (TNBS) Induced Colitis in Rat Colon
Christy Eslinger, Tulsa Community College

Wellness Center - Kiosk 55 Side C
Characterization of Inhibitors of Human DNA Ligases
Kyle Schaubroeck, University of Michigan

Wellness Center - Kiosk 61 Side A
Medicine on Mars
Minerva Gillis, Lone Star College

Wellness Center - Kiosk 61 Side B
Site-Directed Mutagenesis and FRET Analysis of Palladin Interactions
Abby Jurgensmeier, Wichita State University

Wellness Center - Kiosk 61 Side C
Site-Directed Mutagenesis of the ParD Antitoxin to Examine Binding Interaction with the ParE Toxin
Tamiko Murphy, University of Oklahoma Norman Campus

Wellness Center - Kiosk 3 Side A
3D Bioprinting Hyaluronic Acid Based Hydrogels to Mimic a Corneal-Endothelium Extracellular Matrix
Osaiah Mian, University of Oklahoma Norman Campus

Wellness Center - Kiosk 3 Side B
Bigger Targets Are Easier to Hit: Facile Chloplast Genome Transformation in Nicotiana Tabacum Co. Petit Havana with Giant Chloroplasts
Jessica Layton, University of Tennessee at Knoxville

Wellness Center - Kiosk 25 Side A
A Computer Simulation Study of Surface Profile Statistical Properties for a Simple Biofilm System
Karre Hustedde, Doane College

Wellness Center - Kiosk 25 Side B
Cilia-driven Cellular Diffusion and Biomixing at Different Viscosities
Osvald Cheema, University of Central Oklahoma

Wellness Center - Kiosk 25 Side C
3D Bioprinting Hyaluronic Acid Based Hydrogels to Mimic a Corneal-Endothelium Extracellular Matrix
Osaiah Mian, University of Oklahoma Norman Campus

Wellness Center - Kiosk 37 Side B
The Use of Optical Coherence Tomography to Analyze the Efficacy of Skin Care Products
Sarosh Irani, Wayne State University

Wellness Center - Kiosk 39 Side B
Determining Effects on the Volumetric Properties of Red Blood Cells Corresponding to Varied Levels of Intracellular Oxygen Tension
John Lisi, University of Rochester

Wellness Center - Kiosk 39 Side C
Methods for Optimization of Recombinant Spider Silk Protein from Goat Milk
Brandon Yazzie, Utah State University

BIOLOGY

Wellness Center - Kiosk 26 Side A
Peripheral Influenza Infection Alters the Transcriptome of the Cerebellum and Spinal Cord in a Gender-specific Manner
Sidney Stockert, Fisk University

Wellness Center - Kiosk 26 Side B
Determining Effects on the Volumetric Properties of Red Blood Cells Corresponding to Varied Levels of Intracellular Oxygen Tension
John Lisi, University of Rochester

Wellness Center - Kiosk 26 Side C
A Comparison of Cytotoxicity of the Two Human Cell Lines: HCT116 Human Colon and HeLa Human Cervical Cancer Cells
Abigail Jortner, The University of Findlay

Wellness Center - Kiosk 33 Side A
Margaret Steiner, The George Washington University

Wellness Center - Kiosk 33 Side B
Developing A More Efficient Method For Generating Knock Out Cell Lines Using CRISPR/ Cas9
Hayley Chang, University of Rochester

Wellness Center - Kiosk 33 Side C
A Comparison of Cytotoxicity of the Two Human Cell Lines: HCT116 Human Colon and HeLa Human Cervical Cancer Cells
Abigail Jortner, The University of Findlay

STUDENT POSTER SESSION 1 - THU 10:45AM-11:45AM
Wellness Center - Kiosk 33 Side C
How Crowded Is Too Crowded? Effects of High Density Rearing on Reproductive Physiology and Metabolic Rates of Acheta domesticus.
Veronica Wagner, North Central College

Wellness Center - Kiosk 34 Side A
Genetic Variation in the Human Relaxin 2 (RLN2) Promoter Affects in Vitro Expression, with Potential Implications for Susceptibility to Preterm Birth
Lindsay Loughner, Duquesne University

Wellness Center - Kiosk 34 Side B
Isolating Novel Actinomycetes from Centralia, Pennsylvania Soil
Corinne Weikel, Susquehanna University

Wellness Center - Kiosk 34 Side C
Predictive Modeling of E. coli Levels at Urban Beaches Along Lake Michigan
Abigail Gunther, University of Wisconsin - Milwaukee

Wellness Center - Kiosk 37 Side C
Investigating the Role of Microphthalmia-Associated Transcription Factor (MITF) in Autophagy and Melanogenesis
Roshan Darji, University of Alabama at Birmingham

Wellness Center - Kiosk 40 Side B
Characterization of Iloprofen Binding to the Estrogen-Related Steroid Receptor in Drosophila Melanogaster Following Ingestion
Theresa Shafrto, Albright College

Wellness Center - Kiosk 40 Side C
Efferent Mushroom Body Axons Terminate in Lateral Horn of the Pogonomyrmex barbatus (harvester Ant) Brain
Madison Gallucci, Westminster College

Wellness Center - Kiosk 44 Side A
Adipose IL-10 Decreases at the Onset of Glucose Intolerance in Fattening Ground Squirrels
Santidra Love, University of Wisconsin - Oshkosh

Wellness Center - Kiosk 44 Side B
Characterization Of The Naked Mole Rat Secreted Hyaluronan Signaling Network And Its Role In Cancer Avoidance
Audrey Goldfash, University of Rochester

Wellness Center - Kiosk 44 Side C
Environmental Conditions Affecting Development of Mosquito Larvae Responsible for Transmitting West Nile Virus
Dane Anderson, Eastern Washington University

Wellness Center - Kiosk 48 Side A
Phage-based Detection of Alzheimer’s Disease Pathology
Matthew Hayeslip, University of West Florida

Wellness Center - Kiosk 48 Side B
Presence and Prevalence of Community Acquired MRSA Within the Blanchard River Watershed
Rebekkah Frike, The University of Findlay

Wellness Center - Kiosk 48 Side C
Skn-1 Dependence of Cocoa Powder Lifespan Extension on Caenorhabditis elegans
Barat Dharwala, University of Wisconsin - Whitewater

Wellness Center - Kiosk 57 Side C
Von Willebrand Factor as a Mechanism of Platelet Storage in the Bone Marrow of 13 Lined Ground Squirrels
Tyler Billman, University of Wisconsin - La Crosse

Wellness Center - Kiosk 60 Side A
Use of Jasmonic Acid and Salicylic Acid in Nematode Infested Soybeans
Winifred Zajac-McConaghy, University of Central Oklahoma

Wellness Center - Kiosk 60 Side B
Investigation of Genetic Structure in an Independent Invasion of Mediterranean Geckos (Hemidactylus turcicus) at the University of Oklahoma
Samah Houmam, University of Central Oklahoma

Wellness Center - Kiosk 60 Side C
How Does the Overexpression of the Mov10 Gene in Humans Affect the Expression of Other Genes in the Human Body?
Jalen Thomas, Fisk University

CELL & MOLECULAR BIOLOGY

Wellness Center - Kiosk 13 Side B
Sir26-Dependent Histone H3k36 Di-Methylation Is Required For Non-Homologous End Joining Dna Repair And Genome Stability
Seyed Ali Biashad, University of Rochester

Wellness Center - Kiosk 13 Side C
The Bacterial Diversity Found in the Rhizosphere Between Soil Samples Taken from Ecological Niche Using 16S RNA Genes
Youra Moeun, Montana State University Bozeman

Wellness Center - Kiosk 45 Side A
Studying the Effect of Nutrient and Light Variation on the Growth and Oil Production of Neochloris conjuncta
Celine Garcia, Texas A & M University - Kingsville

Wellness Center - Kiosk 45 Side B
Studying the Wastewater Treatment Technique-Adsorption with Granular Activated Carbons (GAC) at Different Influent Concentration
Jose Garcia, Texas A & M University - Kingsville

Wellness Center - Kiosk 45 Side C
Synthesis of High-Performance Artificial Muscle Fibers from Liquid-Crystal Elastomers
Kevin Moseri, Oklahoma State University

Wellness Center - Kiosk 5 Side B
Development of Textile Materials with Potential Microbial Resistant Properties Using Zinc Metal-Based Nanomaterials
Kaitlyn Brasecker, Western Carolina University

Wellness Center - Kiosk 5 Side C
Effect of Additives on Reduction Potential for Electroplating Battery Anodes
Callum Breene, University of Rochester

Wellness Center - Kiosk 28 Side A
Efficient Charge Separation in Composite Photocathode I/PEDOT Photocathodes Prepared by Vapor Phase Polymerization
Bridget Anger, University of Maryland, Baltimore County

Wellness Center - Kiosk 28 Side B
Quantifying Pharmaceutical Composite Breakup Using Acoustic Methods
Youra Moeun, Montana State University Bozeman

Wellness Center - Kiosk 28 Side C
Studying the Effect of Nutrient and Light Variation on the Growth and Oil Production of Neochloris conjuncta
Celine Garcia, Texas A & M University - Kingsville

CHEMICAL ENGINEERING

Wellness Center - Kiosk 31 Side A
CDNA Synthesis and Cloning of Tomato Mosaic Viral RNA (ToMV) Using One-step Nested RT-PCR
Jacob Gray, Indiana University of Pennsylvania

Wellness Center - Kiosk 31 Side B
Joining Dna Repair And Genome Stability
Seyed Ali Biashad, University of Rochester

Wellness Center - Kiosk 31 Side C
The Bacterial Diversity Found in the Rhizosphere Between Soil Samples Taken from Ecological Niche Using 16S RNA Genes
Youra Moeun, Montana State University Bozeman
Wellness Center - Kiosk 12 Side C
Ala Abdeljaber, University of Wisconsin - Milwaukee

Wellness Center - Kiosk 35 Side A
A Case Study of Bad Light Managing an Issue in the Digital Age
Abigail Hatfield, Bridgewater State University

Wellness Center - Kiosk 35 Side C
Salisbury and Wicomico County Employment Support: Helping the Community Help Itself
Shannon McHenry, Salisbury University

COMPUTER SCIENCE
Wellness Center - Kiosk 8 Side A
Analysis of Autonomous Last-Leg Delivery
Joseph Blanco, Kennesaw State University

Wellness Center - Kiosk 8 Side B
Data and Soul: Exploratory Data Mining and Analysis in Music
John Votelli, Moravian College

Wellness Center - Kiosk 29 Side A
Creating a Front-end Interface for Interactive Spaces
Sarah Allen, Elon University

Wellness Center - Kiosk 29 Side B
Intelligent Computer-Mediated Communication Tools
Spencer Hanson, University of Michigan

Wellness Center - Kiosk 29 Side C
Developing a Deep Learning Method for Rede-
fining the CpG Islands
Samuel Cherwonik, State University of New York-Brockport

CRIMINOLOGY/CRIMINAL JUSTICE
Wellness Center - Kiosk 24 Side A
Changing View of Law Enforcement Through the General Public Eyes
Jared Pollard, Cameron University

Wellness Center - Kiosk 24 Side B
Criminal Justice Contact and Relapse Among Patients Seeking Treatment for Opioid Use Disorder
Steven Lawson, Western Carolina University

ECOLOGY & ORGANISMAL BIOLOGY
Wellness Center - Kiosk 14 Side A
Benthic Macroinvertebrate Response to Variation in Fall Discharge of the Upper Main Stem of the Susquehanna River
Altan Ernesti, Susquehanna University

Wellness Center - Kiosk 14 Side B
Climate-Linked Phenological Shifts Detected in the Context of an Ongoing Biodiversity Inventory of Odonata
Christian Ballhorn, The University of Virginia’s College at Wise

ECONOMICS
Wellness Center - Kiosk 10 Side B
Domestic Violence’s Association with Mortgage Delinquencies
Alissa Ballheim, Eastern Washington University

Wellness Center - Kiosk 10 Side C
The Impact of Private School Competitive Ef-
fects on Public School Racial Segregation
Henry Woodward, University of Southern Mississippi

Wellness Center - Kiosk 23 Side A
Modeling Differences in Housing Prices Between the North and South Lake Suburbs of Milwaukee, Wisconsin
Naseem Pournik, Carthage College

Wellness Center - Kiosk 23 Side B
The Rise in Student Debt and the First-Time Home Buyers Market: An Empirical Investigation
Thomas Weiss, Shippenburg University

ENGINEERING/ENGINEERING TECHNOLOGY
Wellness Center - Kiosk 7 Side A
Acid (HCl) Effect on the pH Value of Chemical Solutions
jedeshker Chandrasegaran, Midwestern State University

Wellness Center - Kiosk 7 Side B
Bubble Formation and Liquid Vaporization
Sandra Edward, University of Kentucky

Wellness Center - Kiosk 7 Side C
Cracking Behavior of High-Strength Spiral Steel Bars in Concrete Slabs
PARFAIT MASUNGI, University of Texas at San Antonio

Wellness Center - Kiosk 15 Side B
Effects of Fiber Percentage and Orientation on Fixtures Manufactured by Nylon-Carbon Fiber 3D Printing
Jacob Jones, Minnesota State University, Mankato
STUDENT POSTER SESSION 1 -
THU 10:45AM-11:45AM

Wellness Center - Kiosk 15 Side C
Grip to the Finish
Henrique Ribeiro, Utah Valley University

Wellness Center - Kiosk 47 Side A
Biomechanical Testing of Heart Valve Tissues
Octavio Serrano, University of Oklahoma Norman Campus

Wellness Center - Kiosk 47 Side C
Improving Plate Heat Exchanger Design to Increase the Pressure Tolerance Limit
Brett Schaff, Midwestern State University

Wellness Center - Kiosk 58 Side C
This Valve Feels Sturdy Enough
Charles Galbreath, Utah Valley University

ENVIRONMENTAL STUDIES & SCIENCES
Wellness Center - Kiosk 4 Side A
A Comparative Study: The Survival Rate of the Atala Butterfly in the Pine Rocklands
Christina Leonard, Florida International University

Wellness Center - Kiosk 4 Side B
Hook, Line and Sinking Metals
Kathryn Mudica, Indiana State University

Wellness Center - Kiosk 4 Side C
Plastics and Fish Don’t Mix: Potential Effects of Microplastics on Juvenile Fathead Minnows
Georgia Caplen, Ithaca College

HEALTH SCIENCES & PUBLIC HEALTH
Wellness Center - Kiosk 2 Side A
An Analysis of Mental Health Help-seeking Behaviors and Perceptions of Students in Transition from High School to College
Alexa Trost, Elon University

Wellness Center - Kiosk 2 Side C
Correlation Between Alcohol Consumption & Basal Metabolic Rate (BMR)
Lamuel Bean, Miami University

Wellness Center - Kiosk 56 Side A
Study of the T790M Mutation Induced by TKI Treatment in Lung Cancer
Alex Cooke, University of Michigan

Wellness Center - Kiosk 56 Side B
The Effects of the Perceived Patient-Physician Relationship on Medication Adherence in a Rural Family Practice
Cayla Lawless, Belbel College

KINESIOLOGY & EXERCISE SCIENCE
Wellness Center - Kiosk 50 Side A
A Biomechanical Analysis of Posterior Impingement Syndrome in Female Collegiate Ballet Dancers
Beth Carvin, Bridgewater State University

Wellness Center - Kiosk 50 Side B
Effectiveness of Motivational Interviewing for Different Personalities in College Students
Jenna Petersen, Iowa State University

Wellness Center - Kiosk 50 Side C
Nutrition Analyses for NCAA Division 1 Track Athletes
Kirsten Hizer, Jacksonville University

Wellness Center - Kiosk 27 Side A
Mathematics

Wellness Center - Kiosk 54 Side A
Identification of a Potentially Novel Microbiota Species from Centralia, PA through Physiological and Genetic Comparisons of Closely Related Species
Desiree Furbert, Susquehanna University

Wellness Center - Kiosk 54 Side B
Assessing Essential Oils for Alternative Control Mechanisms Against Multidrug Resistant Pseudomonas Aeruginosa
David Alvarado, Northeastern Illinois University

MICROBIOLOGY & IMMUNOLOGY
Wellness Center - Kiosk 54 Side A
Identifying a Potentially Novel Microbiota Species from Centralia, PA through Physiological and Genetic Comparisons of Closely Related Species
Desiree Furbert, Susquehanna University

Wellness Center - Kiosk 54 Side B
Assessing Essential Oils for Alternative Control Mechanisms Against Multidrug Resistant Pseudomonas Aeruginosa
David Alvarado, Northeastern Illinois University

PHILOSOPHY & ETHICS
Wellness Center - Kiosk 22 Side A
Moral Responsibility: A Spectrum and Where Drug Addiction Fits In
Christina Weinbaum, Brooklyn College

Wellness Center - Kiosk 30 Side A
Native American Culture, Community Identity, and Land: Use of Decision Theory and Morals
Micaiah Harris, Northern Arizona University

Wellness Center - Kiosk 30 Side B
Parsumy, Parsumy, Parsumy
Lydia Morley, University of Utah

Wellness Center - Kiosk 30 Side C
Parsumy, Parsumy, Parsumy

Wellness Center - Kiosk 18 Side A
Expansion and Macroscopic Properties of Velocity Density Function with Edgeworth Expansion
Marissa Zaleski, University of Wisconsin - Eau Claire

Wellness Center - Kiosk 18 Side B
Quantifying Cochlear Nerve Myelination in Mice Lacking Thyroid Hormone Transporters
Stephanie Peterson, Minnesota State University, Mankato

NEUROSCIENCE
Wellness Center - Kiosk 18 Side A
Quantifying Cochlear Nerve Myelination in Mice Lacking Thyroid Hormone Transporters
Stephanie Peterson, Minnesota State University, Mankato

Wellness Center - Kiosk 18 Side B
Quantifying Cochlear Nerve Myelination in Mice Lacking Thyroid Hormone Transporters
Stephanie Peterson, Minnesota State University, Mankato

PHILOSOPHY & ETHICS
Wellness Center - Kiosk 22 Side A
Moral Responsibility: A Spectrum and Where Drug Addiction Fits In
Christina Weinbaum, Brooklyn College

Wellness Center - Kiosk 22 Side B
Euthanasia: A Form of Newgenics?
Gabrielle Sinnott, Daemen College Daemen

MODELING & COMPUTATIONAL SCIENCES
Wellness Center - Kiosk 27 Side A
Modeling Disease Transmission: Incorporating Family Cliques in Exponential Random Graphs
Will Dumm, Montana State University Bozeman

STUDENT POSTER SESSION 1 -
THU 10:45AM-11:45AM

Wellness Center - Kiosk 2 Side A
A Comparative Study: The Survival Rate of the Atala Butterfly in the Pine Rocklands
Christina Leonard, Florida International University

Wellness Center - Kiosk 2 Side C
Correlation Between Alcohol Consumption & Basal Metabolic Rate (BMR)
Lamuel Bean, Miami University

Wellness Center - Kiosk 56 Side A
Study of the T790M Mutation Induced by TKI Treatment in Lung Cancer
Alex Cooke, University of Michigan

Wellness Center - Kiosk 56 Side B
The Effects of the Perceived Patient-Physician Relationship on Medication Adherence in a Rural Family Practice
Cayla Lawless, Belbel College
STUDENT POSTER SESSION 1 - THU 10:45AM-11:45AM

Wellness Center - Kiosk 6 Side C
How Gun Laws Affect the Weapon Choice of Terrorists
McKayla Brady, Susquehanna University

Wellness Center - Kiosk 21 Side A
Christian Flores, Illinois College

Wellness Center - Kiosk 21 Side B
Family Farms on the Great Plains: Protecting Heritage
Carson Messersmith, University of Nebraska at Kearney

Wellness Center - Kiosk 21 Side C
How Candidates Are Reaching Millennials on Facebook
Alexander Beyer, University of Wisconsin - Stout

PSYCHOLOGY
Wellness Center - Kiosk 42 Side A
Attitudes Towards Mental Illness
Christina Schiavone, Adelphi University

Wellness Center - Kiosk 42 Side B
Cheating Relationships and Alcohol Consumption
Kelly Clark, Miami University

Wellness Center - Kiosk 42 Side C
Demographics' Effects on the Severity of PTSD Symptomology from a Possibly Traumatic Event
Charles Toussaint, University of Central Oklahoma

Wellness Center - Kiosk 49 Side A
Demographic Factors Moderate the Relationship Between Anxiety and Depression Symptoms
Chelci Oliver, University of Central Oklahoma

Wellness Center - Kiosk 49 Side B
Demographics as a Moderator for Emotional Reactivity to Trauma and Post-Traumatic Growth
Madison Day, University of Central Oklahoma

Wellness Center - Kiosk 49 Side C
Egocentrism Over Text Messaging: Does Emoji Use Enhance Communication?
Morgan Nicoll, University of Central Oklahoma

Wellness Center - Kiosk 51 Side A
I Know It If I Read It: Perception of Reliability and Credibility of News Stories
Emily Burgess, Southwestern Oklahoma State University

Wellness Center - Kiosk 51 Side B
Social Media Abstinence and Well-Being
Marcus Alexander, University of Memphis- Lambuth

Wellness Center - Kiosk 51 Side C
Propensity for Prosocial Spending: Social Motivation in Spending Behaviors
Michael White, Elmhurst College

Wellness Center - Kiosk 53 Side A
I Know It If I Read It: Perception of Reliability and Credibility of News Stories
Emily Burgess, Southwestern Oklahoma State University

Wellness Center - Kiosk 53 Side B
Pain from Cold Water Immersion Increases Credulity
Alexandra Lessard, Hamline University

SOCIAL WORK
Wellness Center - Kiosk 41 Side B
Parents' Divorce and Fear of Intimacy Among College Students
Breanna Dial, Midwestern State University

Wellness Center - Kiosk 41 Side C
Students' Attitudes Towards Mental Illness: A Comparative Analysis
Anna McLaughlin, Winthrop University

SOCIOLOGY
Wellness Center - Kiosk 36 Side A
The Sustainability of Biphasic Sleep: An Examination of Sleep Habits and College Student Productivity
Joseph Daui, Virginia Commonwealth University
STUDENT POSTER SESSION 2 - THU 1:00PM-2:00PM

ANKTOLOGY & ARCHEOLOGY
Wellness Center - Kiosk 43 Side A
Reexamination of Human Interaction and Possible Contamination of the Dunebo Mammoth Kill Site
Nicole Hill, Cameron University

Wellness Center - Kiosk 43 Side C
Reflections of the Human Condition During the Late Bronze Age in Crete: The Case of Krounos Tholos Tomb
Christina DeBlasio, Adelphi University

ARCHITECTURE & INTERIOR DESIGN
Wellness Center - Kiosk 29 Side B
The Principle of Craft
Lee Martin, Kennesaw State University

Wellness Center - Kiosk 29 Side C
Transfusing Architecture: Ascent of a Developing World
Sandy Ferrier, Kennesaw State University

BIOCHEMISTRY
Wellness Center - Kiosk 1 Side A
A Functional Characterization of Mutations to an O-GlcNAc Hydrolase Enzyme in Vivo
Megan Hinkle, Mercer University

Wellness Center - Kiosk 1 Side B
Conjugation Of RNA-Targeted Compounds To Oligo-Arginine To Increase Cellular Delivery
Chashin Lee, University of Rochester

Wellness Center - Kiosk 1 Side C
Elucidation of the Biochemical Pathway for the Synthesis of Coelenterazine, a Bioluminescent Substrate
Elizabeth Robinson, Mercer University

Wellness Center - Kiosk 3 Side B
Determining the Effects of Methanol on MCF-7 Breast Cancer Cells in Danio Rerio Embryos
Lauren Cressey, Wheaton College

Wellness Center - Kiosk 3 Side C
Enzyme Activation Energy and Dynamics of Dispensin B from Staphylococcus aureus
Jarrett Wingfield, Northeastern State University

Wellness Center - Kiosk 8 Side A
Characterization of Recombinant Enzymes Involved in Blue Green Chromatic Acclimation in the Marine Cyanobacterium Synechococcus Sp. a 15-62
Samman Pokhrel, University of New Orleans

Wellness Center - Kiosk 8 Side C
The Stability Profiles and Targeting Capabilities of HSPC Peptide Modified Liposomes Designed to Target the A3ß1 Integrin on Metastatic Breast Cancer Cells
Shelby Phelps, West Texas A&M University

Wellness Center - Kiosk 17 Side A
Improving the Activity of Phenoxazinone Synthese (PHS) Modeled in Azurin
Nicholas McCormick, University of Minnesota, Duluth

Wellness Center - Kiosk 17 Side B
MAPK Signaling Influenced by Oxygen Environment
Kersten Forsberg, Kennesaw State University

Wellness Center - Kiosk 21 Side A
Role of Myopalladin in Cardiac Muscle Function and Disease
Erina Kutleko, Wichita State University

Wellness Center - Kiosk 21 Side B
Towards the Identification of the Minimal Pharmacophore of KDT-11
Julia McCartney, North Central College

Wellness Center - Kiosk 21 Side C
Identification and Biological Evaluation of New PPARa Agonistic Chemotypes
Dat Truong, University of Oklahoma Norman Campus

Wellness Center - Kiosk 38 Side C
Emerging SAR for Several Series of Trichomonas vaginalis Adenosine/guanosine Preferring Nucleoside Ribohydrolase Inhibitors Derived from Fragment Analog Screening
vital sapojnikov, Adelphi University

Wellness Center - Kiosk 51 Side A
Screening Mutations of O-GlcNAc Hydrolase
Kalynd Dyer, Mercer University

Wellness Center - Kiosk 51 Side B
Identifying Metabolic Inhibitors to Target Aggressive Cancers with Deregulated P27kip1
Michael Hwang, University of Tulsa

Wellness Center - Kiosk 51 Side C
Determining the Binding Affinity of FAD to the SpNox Enzyme
Brittany Notice, Kennesaw State University

BIOLOGICAL ENGINEERING
Wellness Center - Kiosk 61 Side A
Effects of Low Dose and High Dose Laser Irradiation on Metastatic Cancer Cell Migration
Elivia Layton, University of Central Oklahoma

Wellness Center - Kiosk 61 Side B
Characterization and Modification of Pectin-Based Nanofibers
Marquis Henderson, North Carolina Agricultural and Technical State University

Wellness Center - Kiosk 61 Side C
Human Islet Encapsulation with a Peptide Amphiphile Based Hydrogel to Protect Against Cellular Inflammatory Responses
Dishant Shah, University of Alabama at Birmingham

BIOLOGY
Wellness Center - Kiosk 6 Side A
Comparison of Bacterial Species in Native and Invasive Missouri Tree Species
Audrey Habron, Rockhurst University

Wellness Center - Kiosk 6 Side B
Bacterial Treatments for the Improvement of Corn Yield
Davon Hanley, Doane College

Wellness Center - Kiosk 9 Side A
Comparison of Thalidomide Treated Sperm and Treated Artificial Sea Water on L. pictus and S. purpuratus Embryonic Development
Chelsea Moran, Susquehanna University

Wellness Center - Kiosk 9 Side B
Bacteriocin Assay Development
Thy Vo, University of Rochester

STUDENT POSTER SESSION 2 - THU 1:00PM-2:00PM

THU 1:00PM-2:00PM

COUNCIL ON UNDERGRADUATE RESEARCH UNIVERSITY OF CENTRAL OKLAHOMA 208 209
STUDENT POSTER SESSION 2 - THU 1:00PM-2:00PM

Wellness Center - Kiosk 9 Side C
Documenting the Colonization of Mediterranean Geckos (Hemidactylus turcicus) near the University of Central Oklahoma
Emily Falcon, University of Central Oklahoma

Wellness Center - Kiosk 18 Side A
Influence of Multiple Source Infections on Influenza Virulence Evolution
Kori Zarbock, University of Utah

Wellness Center - Kiosk 18 Side B
Morphology and Evolution in Hamamelis
Benjamin O’Hallaron, North Carolina State University

Wellness Center - Kiosk 18 Side C
Reduced Height Alleles (Rht) Significantly Impact Bread Making Factors in Wheat
Twin Schneider, Montana State University Bozeman

Wellness Center - Kiosk 25 Side A
Identification of Potential Enhancers for LRRK2 and C9orf72
Dan Nguyen, University of Alabama at Birmingham

Wellness Center - Kiosk 25 Side C
Collared Lizard Responses to a Realistic Model Roadrunners: Potential for Testing Predictions of Optimal Escape Theory
Charmaine Moya, University of Central Oklahoma

Wellness Center - Kiosk 28 Side A
Bioremediation of Atrazine in Waterways of Agriculturally Heavily Areas
Hunter Kleinschmidt, Doane College

Wellness Center - Kiosk 34 Side C
Mechanisms of Immune Manipulation by Parasites: Varius on the Sand Cricket, Gryllus firmus
Emily Harders, Creighton University

Wellness Center - Kiosk 37 Side A
The Correlation Between Neuronal Morphology and Frequency Sensitivities in Songbirds
Patrick Miller, Salisbury University

Wellness Center - Kiosk 37 Side B
Pollin Tube Development in Water-Pollinated Stuckenia pectinata
Emma Baker, Creighton University

Wellness Center - Kiosk 37 Side C
Production of Bacteriophage Cocktail for Treatment of Wastewater Facility Biosludges
William Bull V, Edgewood College

Wellness Center - Kiosk 40 Side B
Effects of Varying Volumes of Recycled Stream Sediment on the Nutrient Content of Avena sativa
Bailey Kramer, University of Wisconsin - Stout

Wellness Center - Kiosk 40 Side C
Examining the Relationship Between Nitrification and Millipede Survival
Christina Cortes, Georgia College and State University

Wellness Center - Kiosk 42 Side A
The Effects of Synthetic Shading on Thermal Bleaching of Aquacultured Orbicella Faveolata Corals
Elizabeth Murray, Dominican University of California

Wellness Center - Kiosk 42 Side B
The Role of Chondrogenic Growth Factors in the Pathogenesis of Equine DSLD
Madeline Young, University of Georgia

Wellness Center - Kiosk 42 Side C
Using Fluctuating Asymmetry to Assess the Strength of Natural and Sexual Selection
Matthew Whalen, Creighton University

Wellness Center - Kiosk 49 Side A
Genetic Evolution of a Virus in Spatial Structure
Aneilesse Braden, Kurztown University

Wellness Center - Kiosk 49 Side B
Effect of Glucocorticoids on Steroid Sulfatase Activity in NIH-3T3 Fibroblasts
Dylan Miller, Duquesne University

Wellness Center - Kiosk 55 Side B
Urban Waterways: Effect on Hatching Enzymes in Zebrafish
Addison Van Weelden, Trinity Christian College

Wellness Center - Kiosk 55 Side C
What Role Does Light Quality Play in the Asexual Offspring Germination of a Tropical Plant Species? A tale of ducts and light gradient
Matthew Whalen, Creighton University

Wellness Center - Kiosk 45 Side A
Preparation of Consolidation Accounting Journals for SAP ERP
Boysang Kim, University of Central Oklahoma

Wellness Center - Kiosk 45 Side C
Sustainable Business Practices in the Twin Ports Area
Adrian Leal, University of Central Oklahoma

Wellness Center - Kiosk 49 Side B
Using Fluctuating Asymmetry to Assess the Strength of Natural and Sexual Selection
Matthew Whalen, Creighton University

Wellness Center - Kiosk 50 Side A
The Impact of Internal Controls on Debt Structure
Brandon Laughlin, University of Central Oklahoma

Wellness Center - Kiosk 50 Side B
Clustering Parasites to Represent the Cancer Resistance In Blind Mole Rats
Ena Oreskovic, University of Rochester

Wellness Center - Kiosk 50 Side C
Using Fluctuating Asymmetry to Assess the Strength of Natural and Sexual Selection
Matthew Whalen, Creighton University

Wellness Center - Kiosk 52 Side A
Preparation of Consolidation Accounting Journals for SAP ERP
Boysang Kim, University of Central Oklahoma

Wellness Center - Kiosk 52 Side B
Drosophila melanogaster Nora Virus Orf1 Protein Is Localized to the Nucleus
Larissa Attema, University of Nebraska at Kearney

Wellness Center - Kiosk 52 Side C
Using Fluctuating Asymmetry to Assess the Strength of Natural and Sexual Selection
Matthew Whalen, Creighton University

Wellness Center - Kiosk 54 Side A
Preparation of Consolidation Accounting Journals for SAP ERP
Boysang Kim, University of Central Oklahoma

Wellness Center - Kiosk 54 Side B
Sustainable Business Practices in the Twin Ports Area
Adrian Leal, University of Wisconsin - Superior

Wellness Center - Kiosk 54 Side C
Using Fluctuating Asymmetry to Assess the Strength of Natural and Sexual Selection
Matthew Whalen, Creighton University

Wellness Center - Kiosk 56 Side A
Comparison of Salinity Levels for Maximum Growth of Neocloeon Trangulifer
Zeshawn Khan, NC State University

STUDENT POSTER SESSION 2 - THU 1:00PM-2:00PM

Wellness Center - Kiosk 42 Side C
Using Fluctuating Asymmetry to Assess the Strength of Natural and Sexual Selection
Matthew Whalen, Creighton University

Wellness Center - Kiosk 49 Side A
Genetic Evolution of a Virus in Spatial Structure
Aneilesse Braden, Kurztown University

Wellness Center - Kiosk 49 Side B
Effect of Glucocorticoids on Steroid Sulfatase Activity in NIH-3T3 Fibroblasts
Dylan Miller, Duquesne University

Wellness Center - Kiosk 49 Side C
Effect of near Infra-red Lasering on Myofibroblast Phenotype
Christian Obioma, University of Central Oklahoma

Wellness Center - Kiosk 55 Side B
Urban Waterways: Effect on Hatching Enzymes in Zebrafish
Addison Van Weelden, Trinity Christian College

Wellness Center - Kiosk 55 Side C
What Role Does Light Quality Play in the Asexual Offspring Germination of a Tropical Plant Species? A tale of ducts and light gradient
Matthew Whalen, Creighton University

Wellness Center - Kiosk 45 Side A
Preparation of Consolidation Accounting Journals for SAP ERP
Boysang Kim, University of Central Oklahoma

Wellness Center - Kiosk 45 Side B
Drosophila melanogaster Nora Virus Orf1 Protein Is Localized to the Nucleus
Larissa Attema, University of Nebraska at Kearney

Wellness Center - Kiosk 45 Side C
Preparation of Consolidation Accounting Journals for SAP ERP
Boysang Kim, University of Central Oklahoma

Wellness Center - Kiosk 49 Side B
Using Fluctuating Asymmetry to Assess the Strength of Natural and Sexual Selection
Matthew Whalen, Creighton University

Wellness Center - Kiosk 50 Side A
The Impact of Internal Controls on Debt Structure
Brandon Laughlin, University of Central Oklahoma

Wellness Center - Kiosk 50 Side B
Clustering Parasites to Represent the Cancer Resistance In Blind Mole Rats
Ena Oreskovic, University of Rochester

Wellness Center - Kiosk 50 Side C
Using Fluctuating Asymmetry to Assess the Strength of Natural and Sexual Selection
Matthew Whalen, Creighton University

Wellness Center - Kiosk 52 Side A
Preparation of Consolidation Accounting Journals for SAP ERP
Boysang Kim, University of Central Oklahoma

Wellness Center - Kiosk 52 Side B
Drosophila melanogaster Nora Virus Orf1 Protein Is Localized to the Nucleus
Larissa Attema, University of Nebraska at Kearney

Wellness Center - Kiosk 52 Side C
Using Fluctuating Asymmetry to Assess the Strength of Natural and Sexual Selection
Matthew Whalen, Creighton University

Wellness Center - Kiosk 54 Side A
Preparation of Consolidation Accounting Journals for SAP ERP
Boysang Kim, University of Central Oklahoma

Wellness Center - Kiosk 54 Side B
Sustainable Business Practices in the Twin Ports Area
Adrian Leal, University of Wisconsin - Superior

Wellness Center - Kiosk 54 Side C
Using Fluctuating Asymmetry to Assess the Strength of Natural and Sexual Selection
Matthew Whalen, Creighton University

Wellness Center - Kiosk 56 Side A
Comparison of Salinity Levels for Maximum Growth of Neocloeon Trangulifer
Zeshawn Khan, NC State University
THU 1:00PM-2:00PM

Wellness Center - Kiosk 32 Side B
Developing a More Robust Method to Generate Cerebral Organoids to Study Cortical Development in Autism
Uma Mahajan, Case Western Reserve University

Wellness Center - Kiosk 32 Side C
Intercellular Adhesion Molecule-2 Decreases Cell Growth, Anchorage-independent Colony Formation, and Migratory Abilities of MYCN-amplified IMR-32 Neuroblastoma Cells
Skyler Hendrix, University of Alabama at Birmingham

Wellness Center - Kiosk 34 Side B
Examining the DNA-binding Specificity of Fungal-specific Zinc Cluster Transcription Factors ZCF7, ZCF15 and ZCF29
Caroline Self, McNeese State University

Wellness Center - Kiosk 34 Side B
Maternal Mitochondrial Targeting of Protein Cargo Exogenously Delivered Via a Novel Cell-penetrating Peptide Adaptor System
Hope Didier, Kennesaw State University

Wellness Center - Kiosk 34 Side A
Synthesis and Evaluation of N-Methylflourexetine on Plasmodium falciparum
Hannah Johnson, Black Hills State University

Wellness Center - Kiosk 20 Side A
Determination of Electroosmotic and Electrophoretic Mobility of Dyes in Kcelogel F for a Dynamic Range of Ionic Strength Solutions
Drew Thompson, University of Nebraska at Kearney

Wellness Center - Kiosk 20 Side B
Catalyst Substituent Effects on the Vanadium-Catalyzed Oxidation-Reductive Coupling of Alcohols
Matthew Swann, University of Oklahoma Norman Campus

Wellness Center - Kiosk 20 Side C
Direct, Visible Light-Sensitized Benzylc C-H Fluorination of Peptides
Rayyan Jokhah, Johns Hopkins University

Wellness Center - Kiosk 57 Side A
Investigation of Electronic and Structural Factors Affecting the Release of Fluorescent Dyes from Alginate Beads
Patricia Otero, Florida International University

Wellness Center - Kiosk 57 Side B
Optimizing the Rapid Synthesis of Highly Substituted Oxaazoles
Jenna Miller, Salisbury University

Wellness Center - Kiosk 57 Side C
Surface-assisted Laser Desorption/Ionization of Small Organic Molecules Using Non-functionalized Transition Metal Oxide Nanoparticles
Julia Schwieg, University of West Florida

Wellness Center - Kiosk 24 Side A
Communication in Cross-Sex Friendship: Can Men and Women Be “Just Friends?”
Kimberly Tallard, Eastern Connecticut State University

Wellness Center - Kiosk 24 Side B
Productivity of Organizations with Expatriate Employees
Cameron Gibson, Kennesaw State University

Wellness Center - Kiosk 24 Side C
The Pathways of Successful Entrepreneurial Women in Public Relations: Ethical Challenges and Modes of Practice
Stephanie Ramos Quintanar, California State University - Long Beach

Wellness Center - Kiosk 13 Side B
Synthesis and Evaluation of N-Methylfluoxetine on Plasmodium falciparum
Hannah Johnson, Black Hills State University

Wellness Center - Kiosk 13 Side A
Aquatic-terrestrial Food Webs
Morgan Chrystal, Iona College

Wellness Center - Kiosk 12 Side B
Crowd Vision
Milan Gupta, University of Michigan

Wellness Center - Kiosk 12 Side C
Improving Constituent Services In Order to Move Toward Smarter Cities
Jonathon Nosowitz, Iona College

Wellness Center - Kiosk 31 Side B
Software for Customizing a Corpus from Digitized Books for Studies in Speech Communication and Reading Comprehension
Morgan Chyrstal, Iona College

Wellness Center - Kiosk 31 Side C
UAV Collision Avoidance with Stereo Vision
Stephanie Ramos Quintanar, California State University - Long Beach

Wellness Center - Kiosk 7 Side C
The Influence of Habitat Type and Structure on Sites Used by Winterting Red-tailed Hawks, American Kestrels, and Northern Harriers in Central Pennsylvania
Rebekah Smith, Susquehanna University

Wellness Center - Kiosk 52 Side A
Burrowing and Escape Responses Among Riparian and Non-riparian Populations of Wolf Spiders
Tara Barbarich, Susquehanna University

Wellness Center - Kiosk 52 Side B
Conservation Genetics and Migration of Lyme Disease Reservoir Species Peromyscus leucopus
Keaka Farleigh, Capital University

Wellness Center - Kiosk 52 Side C
Shorebird Foraging and Ecology at Two Beaches in Northeast Florida
Melissa Rogers, Jacksonville University

Wellness Center - Kiosk 2 Side A
Awareness of Mindfulness-based Techniques on Social/Emotional Wellbeing, Academic Performance, and Behavioral Control in Elementary Aged Children
Cassondra Salmons, Texas Woman’s University

Wellness Center - Kiosk 2 Side B
Student Comprehension of First-Year Composition Textbooks
Matthew Tikhonovsky, Kennesaw State University

Wellness Center - Kiosk 2 Side C
Title: What Makes a Leader Effective? a Mixed Methods Study
Mikayla Nevills, University of Central Oklahoma

Wellness Center - Kiosk 7 Side B
The Influence of Habitat Type and Structure on Sites Used by Winterting Red-tailed Hawks, American Kestrels, and Northern Harriers in Central Pennsylvania
Rebekah Smith, Susquehanna University

Wellness Center - Kiosk 52 Side A
Burrowing and Escape Responses Among Riparian and Non-riparian Populations of Wolf Spiders
Tara Barbarich, Susquehanna University

Wellness Center - Kiosk 52 Side B
Conservation Genetics and Migration of Lyme Disease Reservoir Species Peromyscus leucopus
Keaka Farleigh, Capital University

Wellness Center - Kiosk 52 Side C
Shorebird Foraging and Ecology at Two Beaches in Northeast Florida
Melissa Rogers, Jacksonville University

Wellness Center - Kiosk 2 Side A
Awareness of Mindfulness-based Techniques on Social/Emotional Wellbeing, Academic Performance, and Behavioral Control in Elementary Aged Children
Cassondra Salmons, Texas Woman’s University

Wellness Center - Kiosk 2 Side B
Student Comprehension of First-Year Composition Textbooks
Matthew Tikhonovsky, Kennesaw State University

Wellness Center - Kiosk 2 Side C
Title: What Makes a Leader Effective? a Mixed Methods Study
Mikayla Nevills, University of Central Oklahoma
## STUDENT POSTER SESSION 2 - THU 1:00PM-2:00PM

| Wellness Center - Kiosk 14 Side B | Immunization Stress Among Refugees Resettled in Utah  
Sayro Paw, University of Utah |
| Wellness Center - Kiosk 33 Side A | Effects of Life Satisfaction and Life’s Meaning on Academic Goal Orientation  
Jeevan Tamtrakar, Musashino University |
| Wellness Center - Kiosk 33 Side B | Evaluation of Home School Physical Education  
Participant Perceived Versus Actual Level of Physical Activity  
Danielle Tilley, University of Nebraska at Kearney |
| Wellness Center - Kiosk 33 Side C | Technology Integration in the Classroom  
Ashley Grubb, Western Carolina University |
| **ELECTRICAL ENGINEERING**  
**Wellness Center - Kiosk 5 Side C** | Performance Analysis of Maximum Power Point Tracking Algorithms Implemented Using Field Programmable Gate Arrays  
Xueqi Ji, Kennesaw State University |
| **ENGINEERING/ENGINEERING TECHNOLOGY**  
**Wellness Center - Kiosk 5 Side A** | Creating a GPS System for Application on a High-Altitude Balloon  
Zachary Hill, Austin PEAY State University |
| Wellness Center - Kiosk 19 Side C | Heat Transfer Simulation in Pebble Bed Reactor for Carbon Dioxide and Helium  
Daniel Bain, Kennesaw State University |
| Wellness Center - Kiosk 27 Side A | Mesoscope: Miniaturized Microscope for Wide Field Cortical Activity Monitoring in Freely Behaving Mice  
Judith Dominguez, University of Minnesota, Twin Cities |
| Wellness Center - Kiosk 27 Side B | The Kinematics of Motion Detection in the Human Body  
Cody Bruton, University of Central Oklahoma |
| Wellness Center - Kiosk 27 Side C | Quantification of Grain Growth Accompanying Phase Transformations in Perovskite Thin Films for Solar Cells  
Quinesha Williams, Tougaloo College |
| Wellness Center - Kiosk 39 Side A | Using the Fourth-Order Runge-Kutta Method to Determine the Dynamic Response of a Free Vibrating Laminated Composite Shallow Shell Panel  
Melanie Ronoh, Midwestern State University |
| Wellness Center - Kiosk 39 Side C | The Low-Cost Solution for Converting Waste Plastic into a Commodity  
Samuel Hawthorne, University of Kentucky |
| Wellness Center - Kiosk 44 Side A | Biomechanical Characterization of Engineered Dermal-Equivalent Tissue  
Erin Drewke, University of Central Oklahoma |
| Wellness Center - Kiosk 44 Side B | Designing and Testing Shipping Containers for Mz2e Tracker Panels  
HUAN TRAN, San Jacinto College |
| **Wellness Center - Kiosk 54 Side C** | Studying Motivations for Adopting Solar Photovoltaic Technology in Chile: An Analytical Hierarchical Process Approach  
Bradyn Thompson, Iowa State University |
| **HEALTH SCIENCES & PUBLIC HEALTH**  
**Wellness Center - Kiosk 23 Side A** | Health Behaviors of College Students  
Sharonjeet Kaur, Kennesaw State University |
| Wellness Center - Kiosk 23 Side B | Historical Trauma in Native American Communities: Implications, Interventions, and Clinical Considerations  
Serene Walteski-Nazzal, University of Minnesota, Twin Cities |
| Wellness Center - Kiosk 23 Side C | Pain Occurrence and Management Among College-age Adults in the United States and the United Kingdom: A Cross-sectional Assessment  
Brianne Howerton, Maryville University of Saint Louis |
| Wellness Center - Kiosk 30 Side A | Stenosis and Pseudostenosis of the Upper Extremity Arteries in Large Vessel Vasculitis  
Kathleen Marinelli, Creighton University |
| **Wellness Center - Kiosk 41 Side A** | Effect of Post Traumatic Stress of Individuals with Hypertension  
Sabina Emerenini, Wayne State University |
| **Wellness Center - Kiosk 41 Side B** | Factors Associated with HIV Risky Behaviors: Results from a Nation-wide Survey  
Courtney Cook, University of West Florida |
| **Wellness Center - Kiosk 41 Side C** | Examination of the Measurement Congruence Between Interactive Health Technology™ (IHT) and the ActiGraph GT3X Accelerometers: A Comparative Study in Physical Activity Levels of College Runners  
Taylor Stewart, University of Nebraska at Kearney |
| Wellness Center - Kiosk 46 Side A | Early Connections to the Modern Opioid Crisis  
Brandon Steele, University of Kentucky |
| Wellness Center - Kiosk 46 Side B | Experience Sampling After a Concussion: Stigma, Negative Emotions, and Loss of Team Support  
Garrett Lindley, Bethel College |
| Wellness Center - Kiosk 46 Side C | Messengers for Health: Baa Nnilah Program  
Garrett Lindley, Bethel College |
| Wellness Center - Kiosk 53 Side A | The Correlation Between Self-Identified Human Sexuality and Pheromone Attraction  
Emily Albrecht, University of Science and Arts of Oklahoma |
Wellness Center - Kiosk 53 Side B
The Power of Parenting: Is There a Relationship Between the Occurrence of Orthorexia Nervosa and Parenting Style?
Laura Roberts, Miami University

Wellness Center - Kiosk 53 Side C
Understanding the Neonatal Death Rate Between 1990 and 2015: Analysis of Data from the Institute for Health Metrics and Evaluation
Randall Schmidt, Bethel College

Wellness Center - Kiosk 56 Side A
How to Teach-As-Midwife Analogy Applies to Health Promotion
Renee Atkinson, University of Central Oklahoma

Wellness Center - Kiosk 56 Side B
Health Care Barriers and Approaches to Dealing with Illnesses Among Mexican Immigrants in Merced County, CA
Maria Rivas Reyes, University of California - Merced

HISTORY
Wellness Center - Kiosk 36 Side A
The Oresteia, Early American History, and Narratives of Democracy
Elizabeth Mathews, George Mason University

Wellness Center - Kiosk 36 Side B
Urban Garden: Milwaukee
Kevin English, University of Wisconsin - Whitewater

Wellness Center - Kiosk 58 Side A
Better Better Homes Und Garten: German Women, Agrarian Nostalgia, and Visions of Empire in German East Africa
Olivia Streett, Roanoke College

Wellness Center - Kiosk 58 Side B
How Should We Teach History?
Elle Alvarez, University of Wisconsin - Stout

Wellness Center - Kiosk 58 Side C
British Migrant Railway Workers in the British Colonial Railway System 1850-1925
Mary Basso, University of Michigan

INTERDISCIPLINARY STUDIES
Wellness Center - Kiosk 4 Side A
A Silent Hate Crime: The Defacing on an LGBTQ Chicoano Mural
Melanie Del Real, Lone Star College System The Honors College

Wellness Center - Kiosk 4 Side B
A Guilt Ridden Society: An Analysis of the Displacement of Guilt in Rape Cases
Natalia Artizmendi, Lone Star College System The Honors College

INTERNATIONAL STUDIES
Wellness Center - Kiosk 15 Side A
Rethinking Psychological Illnesses: A Comprehensive Literature Review of China’s Mental Well-Being
Vidhya Balasubramanian, University of North Carolina, Charlotte

Wellness Center - Kiosk 15 Side B
Acculturation Among a Sample of Foreign-Born Students Studying in a Tennessee University
Sarah Perret, Tennessee Technological University

MATHMATICS
Wellness Center - Kiosk 50 Side A
A Numerical Approximation for Eigenvalues of Hyperbolic Polygons
Think Doan, Texas Christian University

Wellness Center - Kiosk 50 Side B
Counting P-power Extensions of the P-adic Numbers
Janaé Williams, Elon University

NUTRITION
Wellness Center - Kiosk 10 Side A
Effect of Ultra Violet Light Blocking Film Technology on the Retention of Vitamin C and Beta-carotene in Fresh Spinach
Autumn Radlond, Iowa State University

Wellness Center - Kiosk 10 Side B
Formulation, Nutritional and Sensory Analysis of Lentil Fortified Kefir
Maria Marcos, University of Central Oklahoma

Wellness Center - Kiosk 10 Side C
The Effects of a Ketogenic or a Whey Protein Supplement on Metabolism, Appetite and Energy Intake
Isabel Smith, Elon University

PHYSICS
Wellness Center - Kiosk 54 Side A
Simulating Protostellar Disk Formation Using C++
Austin Bane, Roanoke College

Wellness Center - Kiosk 54 Side B
X-ray Luminosity Upper Limits for Undetected Compact Stellar Objects in Supernova Remnants
Ryne Dingler, University of Texas at Arlington

POLITICAL SCIENCE
Wellness Center - Kiosk 11 Side A
Counting P-power Extensions of the P-adic Numbers
Janaé Williams, Elon University

Wellness Center - Kiosk 11 Side B
Mass Incarceration in the United States
Madison Noda, Georgia College and State University

PSYCHOLOGY
Wellness Center - Kiosk 26 Side A
Attachment Styles and Their Influence Towards Condom-taking Behavior
Anna Meyer, University of Central Oklahoma

Wellness Center - Kiosk 26 Side B
Criteron Referenced Validity of ICD-11 Personality Impairment Ratings: A Meta-Analytic Review
Stephanie Waslin, Adelphi University

Wellness Center - Kiosk 26 Side C
Does the Power Pose Decrease Public Speaking Anxiety
Kaitlyn Harkey, University of Central Oklahoma

Wellness Center - Kiosk 35 Side A
Evaluating Public Speaking Performance: A Quest to Validating Public Speaking Tasks
Quincey Krein, Minnesota State University, Mankato

Wellness Center - Kiosk 35 Side B
Frequency of Emerging Adult Marijuana Use as a Result of Coping with Stress and Mental Health
Madeline Cordle, University of Wisconsin - La Crosse

Wellness Center - Kiosk 35 Side C
Marital Conflict and Maternal Depressive Symptoms: Links to Mother-child Attachment Security in Middle Childhood
Joanna Troyanos, Adelphi University

Wellness Center - Kiosk 36 Side A
The Oresteia, Early American History, and Narratives of Democracy
Elizabeth Mathews, George Mason University

Wellness Center - Kiosk 36 Side B
Urban Garden: Milwaukee
Kevin English, University of Wisconsin - Whitewater

Wellness Center - Kiosk 58 Side A
Better Better Homes Und Garten: German Women, Agrarian Nostalgia, and Visions of Empire in German East Africa
Olivia Streett, Roanoke College

Wellness Center - Kiosk 58 Side B
How Should We Teach History?
Elle Alvarez, University of Wisconsin - Stout

Wellness Center - Kiosk 58 Side C
British Migrant Railway Workers in the British Colonial Railway System 1850-1925
Mary Basso, University of Michigan

INTERDISCIPLINARY STUDIES
Wellness Center - Kiosk 4 Side A
A Silent Hate Crime: The Defacing on an LGBTQ Chicoano Mural
Melanie Del Real, Lone Star College System The Honors College

Wellness Center - Kiosk 4 Side B
A Guilt Ridden Society: An Analysis of the Displacement of Guilt in Rape Cases
Natalia Artizmendi, Lone Star College System The Honors College

INTERNATIONAL STUDIES
Wellness Center - Kiosk 15 Side A
Rethinking Psychological Illnesses: A Comprehensive Literature Review of China’s Mental Well-Being
Vidhya Balasubramanian, University of North Carolina, Charlotte

Wellness Center - Kiosk 15 Side B
Acculturation Among a Sample of Foreign-Born Students Studying in a Tennessee University
Sarah Perret, Tennessee Technological University

MATHMATICS
Wellness Center - Kiosk 50 Side A
A Numerical Approximation for Eigenvalues of Hyperbolic Polygons
Think Doan, Texas Christian University

Wellness Center - Kiosk 50 Side B
Counting P-power Extensions of the P-adic Numbers
Janaé Williams, Elon University

NUTRITION
Wellness Center - Kiosk 10 Side A
Effect of Ultra Violet Light Blocking Film Technology on the Retention of Vitamin C and Beta-carotene in Fresh Spinach
Autumn Radlond, Iowa State University

Wellness Center - Kiosk 10 Side B
Formulation, Nutritional and Sensory Analysis of Lentil Fortified Kefir
Maria Marcos, University of Central Oklahoma

Wellness Center - Kiosk 10 Side C
The Effects of a Ketogenic or a Whey Protein Supplement on Metabolism, Appetite and Energy Intake
Isabel Smith, Elon University

PHYSICS
Wellness Center - Kiosk 54 Side A
Simulating Protostellar Disk Formation Using C++
Austin Bane, Roanoke College

Wellness Center - Kiosk 54 Side B
X-ray Luminosity Upper Limits for Undetected Compact Stellar Objects in Supernova Remnants
Ryne Dingler, University of Texas at Arlington

POLITICAL SCIENCE
Wellness Center - Kiosk 11 Side A
Counting P-power Extensions of the P-adic Numbers
Janaé Williams, Elon University

Wellness Center - Kiosk 11 Side B
Mass Incarceration in the United States
Madison Noda, Georgia College and State University

PSYCHOLOGY
Wellness Center - Kiosk 26 Side A
Attachment Styles and Their Influence Towards Condom-taking Behavior
Anna Meyer, University of Central Oklahoma

Wellness Center - Kiosk 26 Side B
Criteron Referenced Validity of ICD-11 Personality Impairment Ratings: A Meta-Analytic Review
Stephanie Waslin, Adelphi University

Wellness Center - Kiosk 26 Side C
Does the Power Pose Decrease Public Speaking Anxiety
Kaitlyn Harkey, University of Central Oklahoma

Wellness Center - Kiosk 35 Side A
Evaluating Public Speaking Performance: A Quest to Validating Public Speaking Tasks
Quincey Krein, Minnesota State University, Mankato

Wellness Center - Kiosk 35 Side B
Frequency of Emerging Adult Marijuana Use as a Result of Coping with Stress and Mental Health
Madeline Cordle, University of Wisconsin - La Crosse

Wellness Center - Kiosk 35 Side C
Marital Conflict and Maternal Depressive Symptoms: Links to Mother-child Attachment Security in Middle Childhood
Joanna Troyanos, Adelphi University
STUDENT POSTER SESSION 2 - THU 1:00PM-2:00PM

**Wellness Center - Kiosk 47 Side A**
The Behavioral Immune System: Homelessness as a Disease Marker
Anya O’Connor, Hamline University

**Wellness Center - Kiosk 47 Side B**
The Impact of Advertisement Type on Body Satisfaction and Mood
Alisha Genetin, Wittenberg University

**Wellness Center - Kiosk 47 Side C**
Undergraduate Employment: How Does Working Effect GPA and Attendance?
Natalia Kunze, University of Nebraska at Omaha

**Wellness Center - Kiosk 48 Side B**
Object Permanence in the Pigeon
Olivia Raley, University of Kentucky

**Wellness Center - Kiosk 48 Side C**
Preference of Social Communication: Comparisons of Introverts and Extroverts
Melanie Gillespie, Georgia College and State University

**Wellness Center - Kiosk 59 Side A**
Elders’ Entertainment Preferences: Discovery Through an Intergenerational Approach with a Film Festival
Melissa Casey, Montana Tech of The University of Montana

**Wellness Center - Kiosk 59 Side B**
Exploring the Zone of Uncertainty Between Friendship and Romantic Relationships in Undergraduate Students
Jarresa Kiyoko Harris, Chaminade University of Honolulu

THEATRE/DRAMA

**Wellness Center - Kiosk 29 Side A**
Spring Awakening Lighting Design
Charlotte Adams, Jacksonville University

**THEATRE/DRAMA**

**Wellness Center - Kiosk 29 Side B**

**ARCHITECTURE & INTERIOR DESIGN**

**Wellness Center - Kiosk 44 Side A**
Measuring Up: Sustainability Assessment of Campus Buildings at the University of Kentucky
Megan Haley, University of Kentucky

**Wellness Center - Kiosk 44 Side B**
Next Healthcare Facility
Amanda VanBuren, University of Nebraska, Lincoln

**ART & SOCIETY**

**Wellness Center - Kiosk 30 Side A**
Evaluating Student Perceptions of Transformatie Graffiti Art Experiences
Anna Wiley, University of Central Oklahoma

**Wellness Center - Kiosk 30 Side C**
Representation of National Identity in Art: A Comparative Study of the Sculptures of Khien Yimsiri and H.C. Westermann
Warapat Krasaetanont, University of Central Oklahoma

**BIOLOGICAL ENGINEERING**

**Wellness Center - Kiosk 5 Side A**
Various Wetland Plant Species Filtrating Nutrients
Alexa Davis, University of Nebraska, Lincoln

**Wellness Center - Kiosk 5 Side B**
Measuring the Accuracy of the National Instruments MyRIO Accelerometer in Microgravity
Rohan Deshpande, University of Louisville

**BIOLOGY**

**Wellness Center - Kiosk 11 Side A**
Analysis of Premature Fossilization in Marine Cetaceans from the Deepwater Horizon Oil Spill
Skye Wardell, University of Central Oklahoma

**Wellness Center - Kiosk 11 Side B**
Cancer Resistance in Blind Mole Rat Mediated by Over Proliferation Induced DNA Damage Response
Jina Lee, University of Rochester

**Wellness Center - Kiosk 11 Side C**
DNA Barcoding of Crustaceans from Artificial Reefs in the Gulf of Mexico
Cara Womacks, University of West Florida

**Wellness Center - Kiosk 15 Side A**
Epigenetic Effects of Microplastics Consumption on Elysia crispata
Tristyn Garza, University of West Florida

**Wellness Center - Kiosk 15 Side C**
Larval Amphibian Disease Dynamics: Understanding Relationships Among B. o. trematode Infection, Chytrid Fungus (Batrachochytrium dendrobatidis), and Stress
Andriana Albini, St Mary’s College of California

**Wellness Center - Kiosk 17 Side A**
CRISPR/Cas9 Gene Knockout in Arabidopsis Plants
Katie Hillmann, Hamline University

**Wellness Center - Kiosk 17 Side B**
Replicating Clinical Retrieval Femoral Head Scratching Using a Hip Simulator
Rebecca Shahn, University of Toledo
STUDENT POSTER SESSION 3 - 
THU 2:20PM-3:20PM

Wellness Center - Kiosk 17 Side B
Altered Feeding Behavior and Viral Detection in Honey Bees Exposed to Organosilicone
Matthew Thompson, Utah State University

Wellness Center - Kiosk 17 Side C
Carotenoids Protect Against Oxidative Damage in the Marine Copepod Tigrigiaus californicus
Philip Wang, Auburn University

Wellness Center - Kiosk 20 Side A
Transformation of Alternative Electron Acceptors by Microorganisms from Narrow Gauge Thermal Feature in Yellowstone National Park
Sarina Mitchell, Elmhurst College

Wellness Center - Kiosk 20 Side B
Effects of FxIII Val34Leu Polymorphism on Fibrin Diameter and Network Density
Michael Flynn, University of North Carolina, Charlotte

Wellness Center - Kiosk 20 Side C
Vitellogenin Expression in Honey Bees (Apis mellifera): How Viral Infections Influence Honey Bee Physiology
Ryan Sabotin, Creighton University

Wellness Center - Kiosk 21 Side A
Effectiveness of Eliciting EGFR Loss-of-function Phenotypes Upon Expression of RNA Interference in Drosophila
Brandy Shrawder, Susquehanna University

Wellness Center - Kiosk 21 Side B
Expression of the InK4A/Arf Tumor Suppressor Transcription Factor MsK1 in Canine Breast Cancer
Jonathan Dismukes, Auburn University

Wellness Center - Kiosk 21 Side C
Investigating Correlations Between College Student Involvement in Extreme Sports, Excessive Alcohol Consumption and the Harm Avoidance Personality Trait
Erica Gitton, Georgia Gwinnett College

Wellness Center - Kiosk 25 Side A
S. Cerevisiae Genetic Suppressor Screen on a Temperature Sensitive Sec6 Mutant
Billie Mills, Georgia College and State University

Wellness Center - Kiosk 25 Side B
Specific Lipid Requirements and Localized Lipid Composition Changes Associated with Flock House Virus RNA Replication Complexes
Kathleen Muloma, Hope College

Wellness Center - Kiosk 25 Side C
Variations in Bone Quality with Reproductive Performance in House Mice
Kayla Frey, Auburn University

Wellness Center - Kiosk 41 Side B
The Diversity and Conservation of Mountain-snails (Oreohelix) from the Lower Salmon River
Anna Oetting, University of Idaho

Wellness Center - Kiosk 49 Side A
Evidence of Immune Priming in Crickets
Lindsey Mack, Creighton University

Wellness Center - Kiosk 49 Side B
Hereditary Equine Regional Dermal Asthenia (HERDA) and Postnatal Reproductive Outcomes in Horses
Therese Anderson, University of Wisconsin - River Falls

BUSINESS/FINANCE/ACCOUNTING

Wellness Center - Kiosk 6 Side A
Role of Ras Oncogene and Selective Mutants on Differentiation of 3T3-L1 Preadipocytes
Camila Sarcone, Florida International University

Wellness Center - Kiosk 27 Side B
Possible Cis and Trans-acting Roles of a Small Protein in Regulation of Spermidine Export in Escherichia coli
Kyungyoon Yoo, Vassar College

Wellness Center - Kiosk 27 Side C
Nutritional Effects on Early Development of Drosophila melanogaster
Vanessa Blanco, Florida International University

Wellness Center - Kiosk 28 Side B
The Effects of Caffeine on Cell Proliferation and Differentiation
Shelby Garcia, University of Central Oklahoma

Wellness Center - Kiosk 28 Side C
Prostaglandin F-2a (fp) Receptor Regulation by Tnf-a in the Porcine Corpus Luteum
Anna Beam, NC State University

Wellness Center - Kiosk 40 Side B
Investigating the Mmc10-Polymerase Epsilon Interaction Using the CRISPR-Cas9 System
Batuel Okda, Northeastern State University

Wellness Center - Kiosk 49 Side C
Gli2 Overexpression Increases Clonogenicity

THU 2:20PM-3:20PM

Wellness Center - Kiosk 2 Side A
Determining the Effects of E-Cigarette Vapor on Oral Epithelial Cells in a Cultured Cell Model
Marygrace Duggar, University of Kentucky

Wellness Center - Kiosk 2 Side B
Possible Cis and Trans-acting Roles of a Small Protein in Regulation of Spermidine Export in Escherichia coli
Kyungyoon Yoo, Vassar College

Wellness Center - Kiosk 2 Side C
Role of Ras Oncogene and Selective Mutants on Differentiation of 3T3-L1 Preadipocytes
Camila Sarcone, Florida International University

Wellness Center - Kiosk 6 Side A
Nutritional Effects on Early Development of Drosophila melanogaster
Vanessa Blanco, Florida International University

Wellness Center - Kiosk 28 Side B
The Effects of Caffeine on Cell Proliferation and Differentiation
Shelby Garcia, University of Central Oklahoma

Wellness Center - Kiosk 28 Side C
Prostaglandin F-2a (fp) Receptor Regulation by Tnf-a in the Porcine Corpus Luteum
Anna Beam, NC State University

Wellness Center - Kiosk 40 Side B
Investigating the Mmc10-Polymerase Epsilon Interaction Using the CRISPR-Cas9 System
Batuel Okda, Northeastern State University
Wellness Center - Kiosk 40 Side C  
Rapid Generation of Multiplexed and Conditional CRISPR Transgenic Mouse Models  
Samantha Lee, University of Minnesota, Twin Cities

Wellness Center - Kiosk 45 Side A  
A Novel Targeted Approach to Treat Cervical Cancer Via Cell-penetrating Peptide-mediated Delivery  
Juana Bejarano, Kennesaw State University

Wellness Center - Kiosk 3 Side C  
Wellness Center - Kiosk 3 Side B

CHEMISTRY

Wellness Center - Kiosk 3 Side B  
Atmospheric Measurements Using Unmanned Aerial System  
Kyle Gelb, University of Wisconsin - Eau Claire

Wellness Center - Kiosk 3 Side C  
A Computational Study of Ammonia–SiX3R Complexes  
Anna Ley, University of Wisconsin - Eau Claire

Wellness Center - Kiosk 9 Side A  
Copper-catalyzed Silylations of C—C Pi-bonds  
Stephan Hartuff, Indiana State University

Wellness Center - Kiosk 9 Side B  
Effects of Non-Steroidal Anti-Inflammatory Drugs on Water Permeability of Lipid Bilayers  
Megan Wood, Iona College

Wellness Center - Kiosk 9 Side C  
Impact Of Finishing Diets On N-3 Pufa Content In Farmed Rainbow Trout  
Sarmishtha Prathivadibhayanakaram, University of Rochester

Wellness Center - Kiosk 22 Side A  
Developing a Brine Shrimp Lebithal Assay for Marine Invertebrate Extracts  
Leah Donathan, University of Central Oklahoma

Wellness Center - Kiosk 22 Side B  
Estrogen Reaction During Simulated Wastewater Treatment  
Trevor Wendi, University of Wisconsin - Whitewater

Wellness Center - Kiosk 34 Side A  
Differential Alkylation of L-Tyrosine by Leptospira Maculans PT, SirD  
Rachel Tran, University of Oklahoma Norman Campus

Wellness Center - Kiosk 34 Side B  
Formation of Nucleobases from UV Photo-Irradiation of Purine in Astrophysical Ices  
Brittania McDowell, Langston University

Wellness Center - Kiosk 55 Side C  
Determination of Multivariate Sugar Mixtures Using Infrared Spectroscopy and Chemometrics  
Morgan Cheek, Western Carolina University

Wellness Center - Kiosk 60 Side A  
Isolation of Novel Compounds from the Octocorallia Carrijoa (Telesto) riusi  
Dakota Becker-Greene, University of South Florida

Wellness Center - Kiosk 60 Side C  
Restoring MRSR’s Susceptibility to β-lactam Antibiotics Using BPEI  
Erika Moen, University of Oklahoma Norman Campus

DIVERSITY STUDIES

Wellness Center - Kiosk 1 Side B  
Redefining Accessibility in Madison  
Nicole Satterlund, Edgewood College

ECOLOGY & ORGANISMAL BIOLOGY

Wellness Center - Kiosk 46 Side A  
Comparative Coral Health Analysis of Select Bonaire Dive Sites  
Laurel Jobe, University of Tennessee at Chattanooga

Wellness Center - Kiosk 46 Side B  
Local Adaptation and Populations’ Growth Responses to Climate in Pinus resinosa  
Lauren Onofrio, Penn State University

Wellness Center - Kiosk 46 Side C  
The Effect of Cedar Oil Derivatives on Mobilization of Metal Ions Across Lipid Membranes  
Eliise Wetzel, Susquehanna University

ENGINEERING/ENGINEERING TECHNOLOGY

Wellness Center - Kiosk 13 Side A  
Determination of Suitable Vehicle Tire Pressure Based on Granular Surface Properties, and Vehicle Loading to Empower an Automated Tire Inflation-deflation Mechanism  
Bahie Ezat, University of Rochester

Wellness Center - Kiosk 13 Side B  
Experimental Study of the Nonlinear Dynamics in a Duffing Oscillatory Circuit  
Abigail Reyes, Midwestern State University

Wellness Center - Kiosk 13 Side C  
Numerical Model of Oscillating Water Column Wave Energy Converter  
Courtney Otani, University of Portland

ECONOMICS

Wellness Center - Kiosk 7 Side B  
Examining the Relationship Between Economic Freedom and Obesity Rate  
James Petrigrew, University of Central Oklahoma

Wellness Center - Kiosk 7 Side C  
The Effect of Adult Incarceration Rates on the Academic Achievement of Children: A Case Study of Washington State  
Sydney Carhart, Eastern Washington University

STUDENT POSTER SESSION 3 - THU 2:20PM-3:20PM

STUDENT POSTER SESSION 3 - THU 2:20PM-3:20PM

ELECTRICAL ENGINEERING

Wellness Center - Kiosk 12 Side A  
A Comparative Analysis of PID and Fuzzy Control for Leader-Follower Behavior in Robots  
Brandon Wilson, United States Military Academy at West Point

Wellness Center - Kiosk 12 Side B  
Dielectric Resonator Antennas  
Val Love, Eastern Washington University

Wellness Center - Kiosk 12 Side C  
Image Processing Techniques Applied to the Fusion of Hyperspectral Images and LiDAR  
Graham Roper, Kennesaw State University

Wellness Center - Kiosk 13 Side A  
Numerical Model of Oscillating Water Column Wave Energy Converter  
Abigail Reyes, Midwestern State University

Wellness Center - Kiosk 13 Side B  
Experimental Study of the Nonlinear Dynamics in a Duffing Oscillatory Circuit  
Abigail Reyes, Midwestern State University

Wellness Center - Kiosk 13 Side C  
Numerical Model of Oscillating Water Column Wave Energy Converter  
Abigail Reyes, Midwestern State University

Wellness Center - Kiosk 31 Side A  
Anaerobic Digestion of Poultry Litter and Food Waste for Biogas Production  
Matthew Preiser, Auburn University
THU 2:20PM-3:20PM

Wellness Center - Kiosk 31 Side B
Design of an In-vitro Model for Testing Distribution and Stability of Single Dental Implant System
Danny Le, University of Central Oklahoma

Wellness Center - Kiosk 31 Side C
Integration of UART Camera with Michigan Real Time Water Systems Lab Sensor Nodes
Isabelle Gallagher, University of Michigan

Wellness Center - Kiosk 37 Side A
Computational Analysis of Transitubular Prosthetic Sockets Fabricated with 3D Printing
Emily Hurst, West Texas A&M University

Wellness Center - Kiosk 37 Side B
Experimental Analysis of Visual Monitoring Range and Effectiveness of a Quadrator Platform
Amro Shamsal, Northern Illinois University

Wellness Center - Kiosk 52 Side A
An Ethnography of Watauga Residential College and Its Relationship to Residential Learning Communities Through the Lens of Residential Life and Student Leadership
Holland McLean, Appalachian State University

Wellness Center - Kiosk 52 Side B
The Language of Spirituality: A Literary and Historical Analysis of Japanese Shamanism
Dana Reaves-Bey Browne, Bridgewater State University

Wellness Center - Kiosk 54 Side A
Bringing a Teen Maze to Macon-Bibb County
Veronica Enchautegui, Mercer University

Wellness Center - Kiosk 54 Side B
How Greek Affiliation Plays a Role in Emotional Intelligence
Sarah Wyand, Miami University

Wellness Center - Kiosk 57 Side A
New Coarse-Grained Models of Aqueous Solutions of Ionic Liquids for Accurate Properties Prediction at Mesoscale
Justin Pol, University of Kentucky

Wellness Center - Kiosk 57 Side B
Hydrologic and Sediment Yield Modeling of Native Prairie and Encroached Eastern Redcedar Watersheds
Raineer Deroin, Oklahoma State University

Wellness Center - Kiosk 57 Side C
Determining Carcass Age with Nonparametric Cluster Analyses: an Experimental Approach
Peter Nieves, George Mason University

Wellness Center - Kiosk 24 Side A
An Exploration of Inspiration and Adaptations in the Short Story Form
Ashley Shaffer, University of Nebraska at Kearney

Wellness Center - Kiosk 24 Side B
An Interdisciplinary Approach to Accessible Art
Alexander Babbitt, Michigan State University

Wellness Center - Kiosk 24 Side C
Predicting the Impact of a E-Cigarette Use
Rachel Booth, Mississippi State University

Wellness Center - Kiosk 31 Side B
Early and Later Childhood Traditional Smoking Impact on E-Cigarette Use
Emily Hurst, West Texas A&M University

Wellness Center - Kiosk 37 Side C
Patient Adherence to Provider Recommendations and Medication Among Uninsured Free Clinic Patients
Jasmine Hurley, University of Utah

Wellness Center - Kiosk 42 Side A
Stop Limit Drink
Jhazmyne Best, Indiana State University

Wellness Center - Kiosk 42 Side B
The Association of Multisite Pain and Health-Related Quality of Life in Older Adults with Chronic Back Pain Including Risk for Falls
Melissa Knoos, University of Washington

Wellness Center - Kiosk 42 Side C
An Interdisciplinary Approach to Accessible Art
Alexander Babbitt, Michigan State University

Wellness Center - Kiosk 42 Side D
The Use of Non-drug Therapies to Treat Chronic Pain Among Cancer Patients
Ashley Franklin, Eastern Connecticut State University

Wellness Center - Kiosk 52 Side A
Attenuation of Excessive Weight Gain 1-Year Post Pediatric Obesity Treatment Program Initiative
Holly Bower, University of Nebraska at Kearney

Wellness Center - Kiosk 54 Side A
Analysis of How B Cells Contribute to the Effect of Photobiomodulation Technique in Regards to Multiple Sclerosis
Uchechi Nwosu, University of Wisconsin - Milwaukee

Wellness Center - Kiosk 54 Side B
Preserving a University’s Film and Video Collections: Best Practices for DIY Howm Print and Videotape Archives
Hugo Ljungbeck, University of Wisconsin - Milwaukee

Wellness Center - Kiosk 54 Side C
The Role of Spirituality in a Literary and Historical Analysis of Japanese Shamanism
Dana Reaves-Bey Browne, Bridgewater State University

Wellness Center - Kiosk 58 Side A
Bringing a Teen Maze to Macon-Bibb County
Veronica Enchautegui, Mercer University

Wellness Center - Kiosk 58 Side B
How Greek Affiliation Plays a Role in Emotional Intelligence
Sarah Wyand, Miami University

Wellness Center - Kiosk 58 Side C
Prevalence of Food Insecurity Among Undergraduate Students in Western Oklahoma
Hannah Madison, Southwestern Oklahoma State University

INTERDISCIPLINARY STUDIES

Wellness Center - Kiosk 52 Side A
An Ethnography of Watauga Residential College and Its Relationship to Residential Learning Communities Through the Lens of Residential Life and Student Leadership
Holland McLean, Appalachian State University

Wellness Center - Kiosk 52 Side B
The Language of Spirituality: A Literary and Historical Analysis of Japanese Shamanism
Dana Reaves-Bey Browne, Bridgewater State University

KINESIOLOGY & EXERCISE SCIENCE

Wellness Center - Kiosk 23 Side A
Preserving a University’s Film and Video Collections: Best Practices for DIY Howm Print and Videotape Archives
Hugo Ljungbeck, University of Wisconsin - Milwaukee
Wellness Center - Kiosk 23 Side B
Effects of Concentric Versus Eccentric Squat Training on Balance Performance in Novice Weightlifters
Sophia Skyberg, Gustavus Adolphus College

Wellness Center - Kiosk 23 Side C
Reaction Time Difference Between Genders in Middle School Students
Joelynn Rascon, University of Texas at El Paso

Wellness Center - Kiosk 36 Side A
Sitting or Standing: Which Is Best for Your Balance?
Clark Anderson, University of Central Oklahoma

Wellness Center - Kiosk 36 Side B
The Effect of Rock Climbing Hold Types on Muscle Force Production
Zach Surton, University of Nebraska at Kearney

Linguistics
Wellness Center - Kiosk 4 Side A
“Communication Patterns Between Deaf and Hearing Family Members”
Andrea Domínguez, California State University - Long Beach

Wellness Center - Kiosk 4 Side B
“Ur So Hawt:” The Presentation of Gender in Online Streaming
Aston Patrick, University of Memphis

Wellness Center - Kiosk 4 Side C
Effects of Marked Intonation on a Restricted Scope Configuration
Luke Tuttle, University of Utah

Marketing
Wellness Center - Kiosk 50 Side A
Be a Part
Olivia Husby, Salisbury University

Wellness Center - Kiosk 50 Side B
Executive Search: How Contestable Markets Affect Branding
Shelley Trawick, Southwestern Oklahoma State University

Wellness Center - Kiosk 50 Side C
Netflix: A Journey to Success in India
Bailey Thompson, Kennesaw State University

Mathematics
Wellness Center - Kiosk 29 Side A
Modeling Giraffe Protein Absorption and Overall Health
Kristina Benton, University of Central Oklahoma

Wellness Center - Kiosk 32 Side A
Welding with Fourier
Taylor Carnahan, San Jacinto College

Wellness Center - Kiosk 32 Side B
Modeling Chemotaxis in Marine Bacteria
Kyle Gossler, Florida State University

Wellness Center - Kiosk 32 Side C
Studying Natural Calamities Through Mathematical Models
Ian Russman, Hamline University

Microbiology & Immunology
Wellness Center - Kiosk 33 Side B
Full Genome Annotation of Novel Phages Infecting Corynebacterium xerosis
Ote Staton, University of Alabama at Birmingham

Nutrition
Wellness Center - Kiosk 35 Side C
The Golden Bacterium’s Secret: Characterization of a Unique Putative Mouthwash Resistance Protein Found in Delftia Species
Noah Riley, North Carolina State University

Nursing
Wellness Center - Kiosk 56 Side A
Becoming Healing Hands: Nursing Education in Touch-driven Care
James Hrncir, Oklahoma City University

Wellness Center - Kiosk 56 Side B
Evaluation of Current Clinical Practicum Experiences to Enhance Future Clinical Nurse Leader Practicum Education
Sydney Rohrbaugh, University of Pittsburgh School of Nursing

Wellness Center - Kiosk 56 Side C
Exploring the Relationship Between Family Communication and Severity of Highly Heritable Cardiac Diseases
John Michael Purdon, University of Pittsburgh School of Nursing

Physics
Wellness Center - Kiosk 18 Side A
Spin Transport of Polarized Helium-3 Atoms
Rhett Croley, University of Kentucky

Wellness Center - Kiosk 18 Side B
Hybrid Magnetic Shielding
Kevin Royal, University of Kentucky

Wellness Center - Kiosk 18 Side C
Evidence of Landau Damping in a Fluid Coupled with an Anharmonic Lattice
Mitchell Dennis, Embry-Riddle Aeronautical University

Wellness Center - Kiosk 26 Side A
Data Compression for the Nab Experiment
Kaitlyn Porter, James Madison University

Wellness Center - Kiosk 26 Side B
Preparation and Analysis of Nanofibrous Silica Sheets from Dynamically Electrospun Precursors
Vincent Tchernov, University of Alabama at Birmingham

Wellness Center - Kiosk 26 Side C
Ferritin Associations with Immune Cell Profile and Inflammatory Markers in Cross-Country Athletes
Bess Bauer, Weber State University

Wellness Center - Kiosk 33 Side C
Impact of the Total Western Diet and Supple-
STUDENT POSTER SESSION 3 - THU 2:20PM-3:20PM

POETRY & CREATIVE WRITING
Wellness Center - Kiosk 19 Side C
Letters From My Subconscious: Voicing the Unheard
Atziri Peña, Mount Saint Mary’s University

POLITICAL SCIENCE
Wellness Center - Kiosk 43 Side A
Improving the Election Process, Voter Access, and Informed Voter Engagement: What Do Oklahomans Think?
Gabriella Oliver, University of Central Oklahoma

Wellness Center - Kiosk 43 Side B
Non-fiction, Narratives and Negotiation: A Study and Creative Exercise in Post-conflict Narratives in Northern Ireland
Sydney Kloster, University of Wisconsin - Superior

Wellness Center - Kiosk 43 Side C
Rhetoric vs. Reality: How Refugees Are Reshaping Sweden
Emma Labowitz, Appalachian State University

PSYCHOLOGY
Wellness Center - Kiosk 16 Side A
Brain Network Interactions in Youth Predicted by the Familial Environment
Sonu Patel, Wayne State University

Wellness Center - Kiosk 16 Side B
Drinking in College: Peer, Parent, and Personality Influences
Taylor Martinek, Hamline University

Wellness Center - Kiosk 16 Side C
Examining the Association Between Experiences of Childhood Trauma and Pregnancy-specific Anxiety
Shiloh Edwardh, University of Minnesota, Twin Cities

Wellness Center - Kiosk 38 Side A
A Correlation Study on Hours of Sleep, Depressive Symptoms and Academic Performance
Janae Cora, Adelphi University

Wellness Center - Kiosk 39 Side A
Attitudes Towards LGBT+ in Politics
Rebecca Young, University of Central Oklahoma

Wellness Center - Kiosk 39 Side B
Demographics Moderate Shame and Guilt Proneness After a Potentially Traumatic Event
Rebekah Phillips, University of Central Oklahoma

Wellness Center - Kiosk 39 Side C
Enduring Elephants and Dynamic Donkeys: The Effect of Conservatism on Ideal-Discrepancy Resolution
Dawn Becker-Miller, Cameron University

Wellness Center - Kiosk 48 Side A
The Effect of Sexualized Girl Stereotypes on Attitudes About Sexual Harassment
Asha Patel, University of Kentucky

Wellness Center - Kiosk 48 Side B
The Effects of a Creative Arts Program on Behaviors of Psychiatric Adolescent Inpatients: Year 1
Alex Giles, Black Hills State University

Wellness Center - Kiosk 53 Side A
School Start Times in Elementary Schools: Associations with Academic Achievement
Courtney Michael, University of Kentucky

Wellness Center - Kiosk 53 Side C
Running Wheel Enrichment, the Effect It Has on Anxiety, Depressive-like Behaviors, and

Wellbeing in Laboratory Mice
Mario Martinez, George Mason University

Wellness Center - Kiosk 61 Side B
The Effect of Diurnal Variability and Modality on False Memory Formation
Deanna Luttenberger, University of Wisconsin - Oshkosh

Wellness Center - Kiosk 61 Side C
Examining the Connection Between Mental Illness Versus Mental Health and Gender on Being Troubled by Behavior
Jennifer Meyers, Bethel College

SOCIOLOGY
Wellness Center - Kiosk 10 Side C
Racial Disparities in Wisconsin: How Freedom Schools Can Close the Gap
Sadie Halfrich, University of Wisconsin - La Crosse

Wellness Center - Kiosk 35 Side A
Book-smarts Behind Bars: A Qualitative Study of Correctional Education
Pearl Gronquist, University of Wisconsin - Stout

Wellness Center - Kiosk 35 Side B
Effectiveness of the UW-Stout Tobacco Ban
Jackson Kiser, University of Wisconsin - Stout

Wellness Center - Kiosk 35 Side C
Stigma, Identity, and Refugees: A Symbolic Interactionist Analysis
Catherine Chestnutt, Roanoke College
STUDENT POSTER SESSION 4 - THU 3:40PM-4:40PM

ANTHROPOLOGY & ARCHEOLOGY
Wellness Center - Kiosk 20 Side B
Nothing Is Certain but Fish and Taxes: Discourse and Perceptions of Water Quality in Chetek, Wisconsin
Amber Georgakopoulos, University of Wisconsin - Stout

Wellness Center - Kiosk 20 Side C
Pass The Gravy: An Ethnographic Study On Food Insecurity During The U.S. Fall And Winter Holiday Season
Kyleigh Hoelscher Hoolischer, Texas State University - San Marcos

ART HISTORY
Wellness Center - Kiosk 39 Side A
The Cold War Propaganda Posters: USA and USSR
Lyazzat Galliolla, University of Central Oklahoma

Wellness Center - Kiosk 39 Side B
Images, Administrators, and Archives: Seals in the Persepolis Fortification Archive
Benjamin Brody, Trinity University

Wellness Center - Kiosk 39 Side C
The Craft of the Celts: Modern Times vs. Ancient Mastery
Heather McCoy, University of Central Oklahoma

BIOCHEMISTRY
Wellness Center - Kiosk 31 Side A
Structure-Function Studies of a Bacterial Toxin
Jessica Ames, University of Oklahoma Norman Campus

Wellness Center - Kiosk 31 Side B
Transplanting a Bacterial Immune System: Design, Construction, and Expression of a Multi-subunit Type IV CRISPR System
Melena Garrett, Utah State University

Wellness Center - Kiosk 31 Side C
The DEAD-box Helicase Mss116 Plays Distinct Roles in Mitochondrial Ribogenesis and MRNA-specific Translation
Natalie Marrero, University of Miami

Wellness Center - Kiosk 37 Side A
The Effects of Renin-Angiotensin System on Endoplasmic Reticulum Stress in Pancreatic Beta Cells
Boonhathizk Sopontammarak, Texas Tech University

Wellness Center - Kiosk 37 Side B
Structure Function Patterns in Non-Conserved Regions of Lactate Dehydrogenase (LDH)
Frank Kurtilok, Wichita State University

Wellness Center - Kiosk 37 Side C
Investigating the Metabolic and Gene Expression Changes in Human Macrophages co-cultured with Pseudomonas aeruginosa Biofilms
Sage Schiller, Montana State University Bozeman

BIOLOGICAL ENGINEERING
Wellness Center - Kiosk 43 Side A
Additive Manufacturing as a Tool in the Development of Training Models for Ultrasound-Guided Thyroid Biopsy
Allison Spaulding, Milwaukee School of Engineering

Wellness Center - Kiosk 43 Side B
Comparative Analysis of Hemorrhagic Trauma Injuries in Rodent Models
Colleen Rosa, North Carolina State University

BIOLOGY
Wellness Center - Kiosk 12 Side A
Exon Sequencing For the Presence of Late Onset Tay-Sachs
Joshua Slotad, Hamline University

Wellness Center - Kiosk 12 Side B
Eliminating the Bacteria Endosymbiote Wolbachia from Drosophila Lines Using a Novel Antibiotic Delivery Method
Corrie Bechtold, Eastern Washington University

Wellness Center - Kiosk 12 Side C
Genetic Effects of Caffeine Treatments on Dpupyrten's Contracture Cells Under High Tension
Sarah Olson, University of Central Oklahoma

Wellness Center - Kiosk 15 Side A
Flying with Swallows - Research-based Learning at Moreno Valley College
Osmin Guevara, Moreno Valley College

Wellness Center - Kiosk 15 Side B
Immune Modulation of Resected Glioblastoma by Engineered Mesenchymal Stem Cells
Gabrielle Price, Spelman College

Wellness Center - Kiosk 15 Side C
Investigation of the Synergistic Effect of Select Phytochemicals Oils and Ampoterivin B to Inhibit Fungal Biofilm Growth in Rhizopus oryzae
Caleb Harris, Utah Valley University

Wellness Center - Kiosk 17 Side A
Arrows in Biology: How Design Theory Affects Scientific Visual Literacy
Daniel Mendoza, University of Alabama at Birmingham

Wellness Center - Kiosk 17 Side B
Comparative Genetic Structure of Mediterranean Geckos (Hemidactylus turcicus) from Oklahoma to Texas
Susan McKenna, University of Central Oklahoma

Wellness Center - Kiosk 17 Side C
Effect of Invasive Reed Canarygrass (Phalaris arundinacea) on Invertebrates in Wetlands of Turnbull National Wildlife
Gunner Davies, Eastern Washington University

Wellness Center - Kiosk 44 Side A
Investigating the Role of Gut Microbiota in the Health of Captive and Wild Black Rhinoceros
Michelle Ahn, The George Washington University

Wellness Center - Kiosk 44 Side B
Kinetic Characterization of Novel Protein-protein Interactions in Helicobacter Pylori Flagellar Assembly
Ji Lee, Kennesaw State University

Wellness Center - Kiosk 44 Side C
Novel Combination Therapy for High-Risk Alveolar Rhabdomyosarcoma with CDK4/6 & Wee1 Kinase Inhibitors
Melanie Justice, Notre Dame University Of Chicago

Wellness Center - Kiosk 46 Side A
The Notch Signaling Pathway Specifies Cardiac Cell Subtypes by Regulating the Expression of Different Pericardial Genes Through Distinct Permissive and Instructive Mechanisms
Mason Gay, Indiana State University

Wellness Center - Kiosk 46 Side B
Comparative Genetic Structure of Mediterranean Geckos (Hemidactylus turcicus) from Oklahoma to Texas
Susan McKenna, University of Central Oklahoma
STUDENT POSTER SESSION 4 - THU 3:40PM-4:40PM

Wellness Center - Kiosk 46 Side B
Utilizing Cytochrome C Oxidase I (COI) for Microenomonic Identification of Osteichthyes Obtained from Rural and Urban Ponds in the Oklahoma Central Plains
Alissa Eberhard, Tulsa Community College

Wellness Center - Kiosk 46 Side C
What Bacteria Are Epiphytes of Midwestern Oak Tree Species?
Mary Streecker, Rockhurst University

Wellness Center - Kiosk 48 Side A
The Effects of SR9243 on HeLa Cell Proliferation and Apoptosis
Jacob Cushing, Benedictine College

Wellness Center - Kiosk 28 Side B
Progress In Synthesizing A Novel Bromo-Substituted Auranone As A Cyclooxygenase-2 Inhibitor
Samoya Forbes-Pentecost, Georgia College and State University

Wellness Center - Kiosk 28 Side C
Examination of the 2018 AJCC Breast Cancer Staging Criteria: Introducing a Novel Risk Stratification Approach for Predicting Breast Cancer Recurrence
Armen Soukiazian, University of Rochester

Wellness Center - Kiosk 25 Side B
MicroRNA Regulation of APOBEC3A and APOBEC3B
Karyl Gieseke, Minnesota State University, Mankato

Wellness Center - Kiosk 25 Side C
The Antioxidant Effects of Protandim
Eden Anderson, Benedictine College

Wellness Center - Kiosk 51 Side B
A Cation Exchange-Solid Phase Extraction Protocol for the Isolation and Analysis of Alkaloids in Poison Froses
Kimberly Glason, Indiana State University

Wellness Center - Kiosk 51 Side C
Effect of Clinically Relevant CAD/CAM Zirconia Polishing on Gingival Fibroblast Proliferation and Focal Adhesions
Jeffrey Wong, Creighton University

Wellness Center - Kiosk 6 Side B
Methylmercury Production Remediation of Acid Mine Drainage and The Role of Sulfur-Reducing Bacteria in the
Brian Rothhard, Susquehanna University

Wellness Center - Kiosk 6 Side C
The Effects of SR9243 on HeLa Cell Proliferation and Apoptosis
Jacob Cushing, Benedictine College

Wellness Center - Kiosk 28 Side A
Chemistry in Art Projects: Synthesis, Characterization and Printmaking Applications of Various Azo Dyes
Alexandra Hanna, Georgia College and State University

Wellness Center - Kiosk 28 Side C
Synthesis of Michael Adducts Utilizing Umpolung Of Strained Ketones
John Johnson, North Carolina State University

Wellness Center - Kiosk 25 Side B
Detection of Warfare Agents with Colorimetric Arrays
Andres Mora, Doane College

Wellness Center - Kiosk 51 Side A
Improving Luminescent Properties of Europium Metal Ion-Doped NaYF4 Nanoparticles
Paige Phillips, Western Carolina University

Wellness Center - Kiosk 25 Side C
Staging Criteria: Introducing a Novel Risk Stratification Approach for Predicting Breast Cancer Recurrence
Armen Soukiazian, University of Rochester

Wellness Center - Kiosk 25 Side B
Analysis of Carboplatin and DNA Interactions
Claudette Fraire, Texas Woman’s University

Wellness Center - Kiosk 49 Side B
How Is Your Voice Perceived?: A Perceptual Study
Emily Galbraith, Texas Woman’s University

Wellness Center - Kiosk 40 Side A
An Analysis of the Knee Injury Rehabilitation Systems To Be Used In Orbit
Gabriel Van Dalsem, Montana State University Bozeman

Wellness Center - Kiosk 51 Side C
Brain Training and the Effects on Speech Perception in Noise Among Older Adults
Ashley Jondle, University of Wisconsin - Whitewater

Wellness Center - Kiosk 9 Side A
A Collaboration on Investigating Literate Language: A Theme Based, Cycles Approach in a Child Development Classroom
Hailey McClain, University of Central Oklahoma

Wellness Center - Kiosk 9 Side B
Utilizing Cytochrome C Oxidase I (COI) for Microenomonic Identification of Osteichthyes Obtained from Rural and Urban Ponds in the Oklahoma Central Plains
Alissa Eberhard, Tulsa Community College

Wellness Center - Kiosk 3 Side C
The Effect of SR9243 on HeLa Cell Proliferation and Apoptosis
Jacob Cushing, Benedictine College

Wellness Center - Kiosk 3 Side B
Effect of Clinically Relevant CAD/CAM Zirconia Polishing on Gingival Fibroblast Proliferation and Focal Adhesions
Jeffrey Wong, Creighton University

Wellness Center - Kiosk 6 Side C
Longevity Analysis of Germ-free Drosophila melanogaster
Makayla Nemecek, University of Nebraska at Kearney

Wellness Center - Kiosk 49 Side A
Analysis of Carboplatin and DNA Interactions
Claudette Fraire, Texas Woman’s University
STUDENT POSTER SESSION 4 - THU 3:40PM-4:40PM

**Wellness Center - Kiosk 22 Side A**

**Citylink Transit: An Android Mobile App for the Citylink Transit System**

Todd Bradshaw, University of Central Oklahoma

**Wellness Center - Kiosk 22 Side C**

**TekFit: an Image Comparison Based App To Help You in the Gym**

Khadijah Mahaley, Kennesaw State University

**Wellness Center - Kiosk 47 Side C**

**Variation in Total Mercury Content of Spiders from Coal-impacted Areas in Central Pennsylvania**

Cutter McMinn, Susquehanna University

**Wellness Center - Kiosk 32 Side B**

**What Factors Determine the U.S. LNG Exports?**

Joseph Downs, University of Central Oklahoma

**Wellness Center - Kiosk 18 Side C**

**What's for Dinner Honey?**

Vinay Pai Pai, University of Wisconsin - Stout

**Wellness Center - Kiosk 59 Side A**

**Determining the Distributional Effects of the Regional Greenhouse Gas Initiative**

Tess Candler, Eastern Connecticut State University

**Wellness Center - Kiosk 59 Side C**

**Tiger Effect**

Nick Efaw, University of Central Oklahoma

**Wellness Center - Kiosk 7 Side A**

**A Treasure Basket of Pinecones, Fabric, and Whisks: One Student’s Journey Advocating for Heuristic Play**

Apollonia Harrell, University of Central Oklahoma

**Wellness Center - Kiosk 7 Side B**

**Escape Rooms as a Study Method**

William Wichmann, Florida International University

**Wellness Center - Kiosk 7 Side C**

**Studying Abroad and Cross-Cultural Communication Skills of American Students: An Analysis of Adaptability and Sensitivity**

Nam Nguyen, Washington State University

**Wellness Center - Kiosk 5 Side A**

**Electromagnetic Interfacing of Neural Networks with Reinnervated Prosthetics**

Lennert Dixon, Eastern Washington University

**ECONOMICS**

**Wellness Center - Kiosk 18 Side C**

**Experimental Modeling and Control of Pneumatic Cylinders for Robotic Applications**

Winnie Ngo, City College of New York

**STUDENT POSTER SESSION 4 - THU 3:40PM-4:40PM**

**Wellness Center - Kiosk 55 Side C**

**The Effect of Water Content on the Unconfined Compression Strength of Memphis, Tennessee Area Loess**

Cooper Morris, University of Memphis

**Wellness Center - Kiosk 5 Side A**

**Designing a Mobility Aid Accessible EcoPRT Vehicle**

Tyler Carrie, NC State University

**Wellness Center - Kiosk 55 Side C**

**Material Strength Exhaustion from Different Perspectives**

Raelynn WIlbb, University of Portland

**Wellness Center - Kiosk 61 Side A**

**sUAS DAA Methods Via LiDAR and LWIR**

Jonathan Buchholz, Embry-Riddle Aeronautical University

**Wellness Center - Kiosk 55 Side C**

**The Effectiveness of Building Information Modeling (BIM) in Building Projects with Alternative Project Delivery Systems in the United States**

Jingchen Liu, Lafayette College

**Wellness Center - Kiosk 55 Side C**

**UAV-based Remote Terrain Search & Rescue Missions with Payload Delivery Using Object-based Image Analysis**

don menuwan wijesinghe, Midwestern State University

**EDUCATION**

**Wellness Center - Kiosk 7 Side A**

**A Treasure Basket of Pinecones, Fabric, and Whisks: One Student’s Journey Advocating for Heuristic Play**

Apollonia Harrell, University of Central Oklahoma

**Wellness Center - Kiosk 21 Side A**

**Development of a Viscometer for High-Viscosity Fluids**

Kristen O’Sullivan, State University of New York-New Paltz

**Wellness Center - Kiosk 21 Side B**

**Community Ravine Slope Stability**

Mary Kioos, Minnesota State University, Mankato

**Wellness Center - Kiosk 21 Side C**

**Integration of Augmented Reality and Neuro-muscular Control Systems for Remote Vehicle Operations**

Adam Berlier, Embry - Riddle Aeronautical University

**Wellness Center - Kiosk 38 Side B**

**Sustainability Project**

Oswaldo Perez, San Jacinto College Honors Program

**Wellness Center - Kiosk 55 Side B**

**Thermal and Environmental Barrier Coating (TEBC) on SiC**

Zoe Benedict, Montana State University Bozeman

**Wellness Center - Kiosk 61 Side C**

**The Effectiveness of Building Information Modeling (BIM) in Building Projects with Alternative Project Delivery Systems in the United States**

Jingchen Liu, Lafayette College

**Wellness Center - Kiosk 55 Side C**

**UAV-based Remote Terrain Search & Rescue Missions with Payload Delivery Using Object-based Image Analysis**

don menuwan wijesinghe, Midwestern State University

**Wellness Center - Kiosk 61 Side A**

**sUAS DAA Methods Via LiDAR and LWIR**

Jonathan Buchholz, Embry-Riddle Aeronautical University

**ECONOMICS**

**Wellness Center - Kiosk 18 Side C**

**What Factors Determine the U.S. LNG Exports?**

Joseph Downs, University of Central Oklahoma

**Wellness Center - Kiosk 18 Side C**

**What's for Dinner Honey?**

Vinay Pai Pai, University of Wisconsin - Stout

**Wellness Center - Kiosk 59 Side A**

**Determining the Distributional Effects of the Regional Greenhouse Gas Initiative**

Tess Candler, Eastern Connecticut State University

**Wellness Center - Kiosk 59 Side C**

**Tiger Effect**

Nick Efaw, University of Central Oklahoma

**Wellness Center - Kiosk 7 Side C**

**Studying Abroad and Cross-Cultural Communication Skills of American Students: An Analysis of Adaptability and Sensitivity**

Nam Nguyen, Washington State University

**Wellness Center - Kiosk 5 Side A**

**Electromagnetic Interfacing of Neural Networks with Reinnervated Prosthetics**

Lennert Dixon, Eastern Washington University

**Wellness Center - Kiosk 5 Side A**

**Experimental Modeling and Control of Pneumatic Cylinders for Robotic Applications**

Winnie Ngo, City College of New York

**STUDENT POSTER SESSION 4 - THU 3:40PM-4:40PM**

**Wellness Center - Kiosk 55 Side C**

**The Effect of Water Content on the Unconfined Compression Strength of Memphis, Tennessee Area Loess**

Cooper Morris, University of Memphis

**Wellness Center - Kiosk 5 Side A**

**Designing a Mobility Aid Accessible EcoPRT Vehicle**

Tyler Carrie, NC State University

**Wellness Center - Kiosk 55 Side C**

**Material Strength Exhaustion from Different Perspectives**

Raelynn WIlbb, University of Portland

**Wellness Center - Kiosk 61 Side A**

**sUAS DAA Methods Via LiDAR and LWIR**

Jonathan Buchholz, Embry-Riddle Aeronautical University

**Wellness Center - Kiosk 55 Side C**

**The Effectiveness of Building Information Modeling (BIM) in Building Projects with Alternative Project Delivery Systems in the United States**

Jingchen Liu, Lafayette College

**Wellness Center - Kiosk 61 Side C**

**UAV-based Remote Terrain Search & Rescue Missions with Payload Delivery Using Object-based Image Analysis**

don menuwan wijesinghe, Midwestern State University
Wellness Center - Kiosk 58 Side B
Nationwide Approach to the Dual Elimination of Mother to Child Transmission (EMTCT) of HIV and Syphilis Within Kenya
Courtney Cook, University of West Florida

Wellness Center - Kiosk 4 Side C
Documenting Deportation: Where There Is Oppression, there Is Resistance
Margarita Garcia Rojas, University of Wisconsin - Milwaukee

Wellness Center - Kiosk 27 Side B
Tributes to Traitors
Elisabeth Owens, Tarrant County College District

Wellness Center - Kiosk 40 Side B
Connect or Disconnect?: Examining the Influence of Social Media Behaviors on Interpersonal Health
Taylor Kizer, University of Nebraska at Kearney

Wellness Center - Kiosk 40 Side C
Global Feminism: A Study of the Living Conditions of Women and Girls Around the World
Stephanie Easterling, University of Central Oklahoma

Wellness Center - Kiosk 24 Side A
Can Motherhood Drive Feminism?: the Case of Las Madres De La Plaza De Mayo in Argentina
Allison McNamara, Illinois College

Wellness Center - Kiosk 35 Side A
Examining the Role of Visual Perception in the Hopping Locomotion of Rhinella marina
William Werry, Wheaton College

Wellness Center - Kiosk 35 Side B
Increased Nitric Oxide Bioavailability Does Not Affect Endothelial Function and Pulse Wave Velocity
Brycen Ratcliffe, Indiana State University

Wellness Center - Kiosk 14 Side A
Habitat Suitability Model for Non-timber Forest Products at the Hahn Farm Montgomery County, Virginia
Jack Reame, Virginia Polytechnic Institute & State University

Wellness Center - Kiosk 14 Side B
Response of Gastropod Size Frequency Distribution to Anthropogenic Disturbance
Maria Hilgers, University of Wisconsin - Whitewater

Wellness Center - Kiosk 4 Side A
American Whalers Entering the Slave Trade
Hannah Broughton, Christopher Newport University

Wellness Center - Kiosk 4 Side B
An Analysis of Discrepancies Within Contemporary Sources of the Battle of Gaugamela
Christopher Welch, Bridgewater State University

Wellness Center - Kiosk 58 Side A
Music Therapy & Dementia Health: Focusing on the Environmental Factors
Sergio Cabrales, University of California - Merced
STUDENT POSTER SESSION 4 - THU 3:40PM-4:40PM

Wellness Center - Kiosk 19 Side C
Poxvirus Virulence Genes and Their Role in Endosome Trafficking and Antigen Presentation: Crucial for Activation of an Immune Response
Rishita Yeduri, East Carolina University

Wellness Center - Kiosk 34 Side A
Analysis of Common Repeat Regions Found in Phages Infecting the Bacteria Host, Corynebacterium
Manuel Rocha, University of Alabama at Birmingham

Wellness Center - Kiosk 34 Side B
Defective Interfering Particles in Buggy Creek Virus, a Unique Arbovirus
Tyler Rollman,Creighton University

Wellness Center - Kiosk 34 Side C
Restriction on Bacterial Diversity Demonstrated by Community Level Physiologic Profiling (CLPP) Using Biolog EcoPlatesTM After Carbon Tetrachloride Exposure
Josh Baty, University of Evansville

Wellness Center - Kiosk 57 Side A
Host Gene Expression and Phosphorylation in THP-1 Cells During Coxiella burnetii Infection
Christa Jackson, John Brown University

Wellness Center - Kiosk 57 Side B
Monsters in the Water: Antibiotic Resistance in the Chicago Area Waterways
Morgan De Ruiter, Trinity Christian College

Wellness Center - Kiosk 57 Side C
Riding the Microbial Ferrous Iron Wheel with an Archaeon from a Hot Spring in Yellowstone
Maria Clara Fernandes Martins, Montana State University Bozeman

NEUROSCIENCE
Wellness Center - Kiosk 8 Side A
A Systematic Review: The Potential Neuroplastic Mechanisms Underlying Music Therapy in Cognitively Impaired Older Adults
Sabrina Goyal, University of Rochester

Wellness Center - Kiosk 8 Side B
Botulinum and Oxidized Synergism in Mice Could Inform Potential Treatments
Remy Meir, University of Alabama at Birmingham

Wellness Center - Kiosk 8 Side C
Females of a Moth with Two-caled Ears Discriminate Acoustic Stimuli with Different Temporal Patterns
Jessica Hernandez, Florida International University

Wellness Center - Kiosk 23 Side A
Age and Genetic Background Influence Initial Nicotine Sensitivity in C57BL/6J and DBA/2J Mice
Carley Millet, Penn State University

Wellness Center - Kiosk 23 Side B
Effects of Alcohol on Defeat-induced Social Avoidance in Mice
Emily Graham, University of Tennessee at Knoxville

NURSING
Wellness Center - Kiosk 1 Side A
A Comparison Between Traditional BSN and RN-BSN Programs in Pennsylvania
Courtney Knotts, University of Pittsburgh School of Nursing

Wellness Center - Kiosk 1 Side B
Evidence-Based Practice for Chest Tube Dressings to Reduce Insertion Site Infections and Air Leaks: An Integrative Research Review
Cristi Kinney, Lubbock Christian University

Wellness Center - Kiosk 41 Side A
The Discursive Construction of Afghan Women in US Political Discourse
Sara Huzar, George Mason University

PSYCHOLOGY
Wellness Center - Kiosk 10 Side A
Arousal Reappraisal and Interoceptive Awareness: How Awareness of Bodily Changes Facilitates Heightened Performance & Ability to Reappraise
Wyndham Chalmers, College of Saint Benedict/ St. John’s University

Wellness Center - Kiosk 10 Side B
Adolescent Suicide Prevention
Kaitlyn Foster, University of Central Oklahoma

Wellness Center - Kiosk 13 Side A
Product Development Considerations for a Nutrient Rich Protein Bar Using Cricket (acheta Domesticus) Protein
Erther Maciel, California State University - Long Beach

Wellness Center - Kiosk 13 Side B
A Nutritional Value Powder to Increase Protein Content and Nutritional Value
Levi Brown, University of Central Oklahoma

Wellness Center - Kiosk 26 Side A
Body Awareness and the Perceived Location of Femininity and Queerness in Writing
Karina Yamaguchi, Musashino University

Wellness Center - Kiosk 26 Side B
An Unconscious Muse: The Irresistible Forces of Femininity and Queerness in Writing
Ava Rutter, Mount St. Mary’s College - Los Angeles

NUTRITION
Wellness Center - Kiosk 8 Side A
A Systematic Review: The Potential Neuroplastic Mechanisms Underlying Music Therapy in Cognitively Impaired Older Adults
Sabrina Goyal, University of Rochester

Wellness Center - Kiosk 8 Side B
Botulinum and Oxidized Synergism in Mice Could Inform Potential Treatments
Remy Meir, University of Alabama at Birmingham

Wellness Center - Kiosk 8 Side C
Females of a Moth with Two-caled Ears Discriminate Acoustic Stimuli with Different Temporal Patterns
Jessica Hernandez, Florida International University

Wellness Center - Kiosk 23 Side A
Age and Genetic Background Influence Initial Nicotine Sensitivity in C57BL/6J and DBA/2J Mice
Carley Millet, Penn State University

Wellness Center - Kiosk 23 Side B
Effects of Alcohol on Defeat-induced Social Avoidance in Mice
Emily Graham, University of Tennessee at Knoxville

POETRY & CREATIVE WRITING
Wellness Center - Kiosk 26 Side A
An Unconscious Muse: The Irresistible Forces of Femininity and Queerness in Writing
Ava Rutter, Mount St. Mary’s College - Los Angeles

Wellness Center - Kiosk 26 Side B
An Explanation of the Counter-Intuitive Relationship Between Need for Attention and Intrinsic Learning Motivation
Karina Yamaguchi, Musashino University

Wellness Center - Kiosk 50 Side B
Here Today, Gone Tomorrow: Two Decades of Deportation Trends in the U.S.
Sandra Chavez, University of West Georgia

POLITICAL SCIENCE
Wellness Center - Kiosk 50 Side C
The Discursive Construction of Afghan Women in US Political Discourse
Sara Huzar, George Mason University

Wellness Center - Kiosk 16 Side A
ADHD Diagnosis Is Associated with Depressive Symptomology Among College Students
Samuel Grassman, University of Wisconsin - Stout

Wellness Center - Kiosk 16 Side B
An Explanation of the Counter-Intuitive Relationship Between Need for Attention and Intrinsic Learning Motivation
Karina Yamaguchi, Musashino University

Wellness Center - Kiosk 16 Side C
Body Awareness and the Perceived Location of Self
Jesus Ramones, University of Central Oklahoma

Wellness Center - Kiosk 30 Side A
Program Evaluation for YWCA Ready to Learn
Quincey Krein, Minnesota State University, Mankato
**STUDENT POSTER SESSION 4 - THU 3:40PM-4:40PM**

**Wellness Center - Kiosk 30 Side B**
*Relationship of Room Cleanliness, Self-Image and General Self-Care*
Svetlana Procopenko, Dominican University of California

**Wellness Center - Kiosk 33 Side A**
*Blessed Assurance or Loving Thy Neighbor? The Existential Tradeoff of Religious Orientations*
Tristyn Short, Southern Nazarene University

**Wellness Center - Kiosk 33 Side B**
*Cross-modal Attentional Entrainment Effects: Insights from Magicians*
Amanda Ehler, Carthage College

**Wellness Center - Kiosk 33 Side C**
*Effects of Cell Phone Usage Upon Sleep Quality in College Students*
Merisa Cook, Weber State University

**Wellness Center - Kiosk 42 Side A**
*Effects of Content on Physiological Stress Response During Public Speaking Task*
McKenzie Schooley, University of Science and Arts of Oklahoma

**Wellness Center - Kiosk 42 Side B**
*Identifying Individuals Through Their Behavioral Biometrics*
Kelly Rogers, University of Central Oklahoma

**Wellness Center - Kiosk 53 Side A**
*The Parallels Between Political Dissimilarity and Friendship Violation*
Brianna Campbell, Adelphi University

**Wellness Center - Kiosk 53 Side B**
*Views On Spanking*
Imaan Ahmed, Elmhurst College

**Wellness Center - Kiosk 53 Side C**
*An Exploration of Ethnic and Racial Discrimination Among Latinos Across Generational Status*
Edith Melendez, Eastern Washington University

**Wellness Center - Kiosk 56 Side A**
*Culture Differences in the Effect of Capitalization on Relationship Well-Being*
xinzhi wang, University of Rochester

**Wellness Center - Kiosk 56 Side B**
*Testing the Structure and Binding Properties of Proposed Metamorphic Proteins*
Brandon Black, University of North Carolina, Chapel Hill

**Wellness Center - Kiosk 56 Side C**
*The Parallels Between Political Dissimilarity and Friendship Violation*
Brianna Campbell, Adelphi University

**Wellness Center - Kiosk 20 Side B**
*Maximizing Output from an Aspirin Producing Bacteria*
Lori Gowyn, Southwestern Oklahoma State University

**Wellness Center - Kiosk 20 Side C**
*Mechanism of DNA Hydrolysis and Target Specificity of Co, Ni, and Zn Cyclen and Cyclen Complexes*
Lori Gowyn, Southwestern Oklahoma State University

**Wellness Center - Kiosk 27 Side A**
*Sequence Analysis of NapA Diversity in the Beaver Dam Creek Watershed*
Melissa Vaalyn, Salisbury University

**Wellness Center - Kiosk 27 Side B**
*Testing the Structure and Binding Properties of Proposed Metamorphic Proteins*
Brandon Black, University of North Carolina, Charlotte

**Wellness Center - Kiosk 27 Side C**
*Post-translational Modification of KMT Targeting Bacteria*
Lori Gwyn, Southwestern Oklahoma State University

**Wellness Center - Kiosk 20 Side A**
*Inhibition of Actinobacteria and Actinobacteria Phages by ZnO Nanoparticles*
Monica Reece, Western Carolina University

**Wellness Center - Kiosk 26 Side C**
*Climate Change Theatre Action at Iowa State University*
Vivian Cook, Iowa State University

**Wellness Center - Kiosk 8 Side B**
*Synthesis of a Macroyclic Polyamine for Enzyme Mimic Studies*
Kevan English, University of West Florida

**ART HISTORY**

**Wellness Center - Kiosk 5 Side A**
*African and Oceanic Art: Reevaluating the Concept of Cultures and Museums*
Olivia Musgrove, University of Central Oklahoma

**Wellness Center - Kiosk 5 Side B**
*Roy Lichtenstein: Popeye 1961*
Sam Howard, East Central University

**Wellness Center - Kiosk 5 Side C**
*Tracing Transformations in Sri Lankan Dance, Costume, and Photography*
Sashini Godage, Johns Hopkins University

**BIOCHEMISTRY**

**Wellness Center - Kiosk 8 Side A**
*Structure-Guided Optimization of PPARa Agonists*
Jessica Knobbe, University of Oklahoma Norman Campus

**Wellness Center - Kiosk 8 Side B**
*Synthesis of a Macrocyclic Polyamine for Enzyme Mimic Studies*
Kevan English, University of West Florida

**Wellness Center - Kiosk 8 Side C**
*Virtual Screening for Novel Inhibitors of Trypanosoma Cruzi 6-phosphogluconate Dehydrogenase*
Kaiz Kimeru, University of Texas at Austin

**SOCIAL WORK**

**Wellness Center - Kiosk 47 Side A**
*Perceptions of Sexual Assault Among College Students*
Linda Drake, Midwestern State University

**THEATRE/DRAMA**

**Wellness Center - Kiosk 26 Side C**
*Climate Change Theatre Action at Iowa State University*
Vivian Cook, Iowa State University

**STUDENT POSTER SESSION 5 - FRI 8:30AM-9:30AM**

**ART HISTORY**

**Wellness Center - Kiosk 5 Side A**
*African and Oceanic Art: Reevaluating the Concept of Cultures and Museums*
Olivia Musgrove, University of Central Oklahoma

**Wellness Center - Kiosk 5 Side B**
*Roy Lichtenstein: Popeye 1961*
Sam Howard, East Central University

**Wellness Center - Kiosk 5 Side C**
*Tracing Transformations in Sri Lankan Dance, Costume, and Photography*
Sashini Godage, Johns Hopkins University

**BIOCHEMISTRY**

**Wellness Center - Kiosk 8 Side A**
*Structure-Guided Optimization of PPARa Agonists*
Jessica Knobbe, University of Oklahoma Norman Campus

**Wellness Center - Kiosk 8 Side B**
*Synthesis of a Macrocyclic Polyamine for Enzyme Mimic Studies*
Kevan English, University of West Florida

**Wellness Center - Kiosk 8 Side C**
*Virtual Screening for Novel Inhibitors of Trypanosoma Cruzi 6-phosphogluconate Dehydrogenase*
Kaiz Kimeru, University of Texas at Austin

**Wellness Center - Kiosk 20 Side A**
*Inhibition of Actinobacteria and Actinobacteria Phages by ZnO Nanoparticles*
Monica Reece, Western Carolina University

**Wellness Center - Kiosk 20 Side B**
*Maximizing Output from an Aspirin Producing Bacteria*
Lori Gowyn, Southwestern Oklahoma State University

**Wellness Center - Kiosk 20 Side C**
*Mechanism of DNA Hydrolysis and Target Specificity of Co, Ni, and Zn Cyclen and Cyclen Complexes*
Lori Gowyn, Southwestern Oklahoma State University

**Wellness Center - Kiosk 27 Side A**
*Sequence Analysis of NapA Diversity in the Beaver Dam Creek Watershed*
Melissa Vaalyn, Salisbury University

**Wellness Center - Kiosk 27 Side B**
*Testing the Structure and Binding Properties of Proposed Metamorphic Proteins*
Brandon Black, University of North Carolina, Charlotte

**Wellness Center - Kiosk 27 Side C**
*Post-translational Modification of KMT Targeting Bacteria*
Lori Gwyn, Southwestern Oklahoma State University

**Wellness Center - Kiosk 56 Side A**
*Determining the Effect of A3B Overexpression on the Mutational Landscape of Ovarian and Fallopian Tube Epithelial Cells in Vivo*
Christina Landis, University of Minnesota, Twin Cities

**Wellness Center - Kiosk 56 Side B**
*Investigating Mechanisms of Regulation of Mitochondrial DNA Transcription*
Alicia Bostwick, Hope College

**Wellness Center - Kiosk 56 Side C**
*Post-translational Modification of KMT Targeting Bacteria*
Lori Gwyn, Southwestern Oklahoma State University
STUDENT POSTER SESSION 5 - FRI 8:30AM-9:30AM

**BIOLOGICAL ENGINEERING**

**Wellness Center - Kiosk 35 Side A**


Emily Koslik, Iowa State University

**Wellness Center - Kiosk 35 Side B**

Development of Ex-Vivo Tissue Device

Fredella Lee, University of Rochester

**Wellness Center - Kiosk 35 Side C**

Membrane Dynamics During Photothermal Stimulation

Sanim Rahman, University of South Florida

**STUDENT POSTER SESSION 5 - FRI 8:30AM-9:30AM**

**BIOLOGY**

**Wellness Center - Kiosk 37 Side C**

Effects of a Mixture of Ibuprofen and Tri-clocarbon on the Water Flea, Ceriodaphnia dubia

Katrina Engelbrecht, University of Wisconsin - Whitewater

**Wellness Center - Kiosk 41 Side A**

The Effect of Estrogen on Parenchyma Tissue Composition in Calves Fed an Enhanced Diet

Jessica (Ened) McNet, Northern New Mexico Community College

**Wellness Center - Kiosk 41 Side B**

The Fungus Calonectria pteridis Causing Rhizome Rot of Ornamental American Pitcher Plants (Sarracenia Sp.)

Owen Washam, North Carolina State University

**Wellness Center - Kiosk 41 Side C**

Polyamine Pathway as a Player in Breast Cancer Cell Proliferation in Diabetic Conditions

Jose Ortega, University of Nebraska at Kearney

**Wellness Center - Kiosk 42 Side A**

The Role of mRNA Decay in Caulobacter crescentus Cell Cycle Regulation

Obaidah Bitar, Wayne State University

**Wellness Center - Kiosk 42 Side B**

Acceleration of Neuronal Outgrowth by Histone Deacetylases During Neurogenesis

Benjamin Ahlrichs, University of Northern Iowa

**Wellness Center - Kiosk 42 Side C**

Characterization of Apoptotic Activity of Baggy Creek Virus

Benjamin Ryan, Creighton University

**CHEMISTRY**

**Wellness Center - Kiosk 43 Side A**

Investigating Mcm10 and Mrc1 Interaction at the Replication Fork

Bryan Wright, Northeastern State University

**Wellness Center - Kiosk 43 Side B**

Odd Versus Even: Medium-chain Triglycerides Absorption in Patients with Long-chain Fatty Acid Oxidation Disorders

Dhale Larsen Posadas, Portland State University

**STUDENT POSTER SESSION 5 - FRI 8:30AM-9:30AM**

**CELL & MOLECULAR BIOLOGY**

**Wellness Center - Kiosk 37 Side A**

Diversity of Riffle Fishes in the Upper Blue River, Oklahoma

Jonathan Lucas, East Central University

**Wellness Center - Kiosk 37 Side B**

Regioselective and Ratio Controlled Conjugation of Fluorophores to Trastuzumab Antibody Fragment

Naomy De Los Santos, Iona College

**Wellness Center - Kiosk 37 Side C**

The Role of HSP70 and HSP90 in Tolerating Abiotic Stressors in Seaweeds Gracilaria verruculophylla and Ulva lactuca

Killian Campbell, Eastern Washington University

**Wellness Center - Kiosk 43 Side B**

Evaluation of Haemonchus contortus Hatch Inhibition by Three Plant Based Products

Sydney Lyon, Texas State University - San Marcos

**Wellness Center - Kiosk 43 Side C**

Identification of Sulfonamide-resistant Bacteria Within Lake Sediment of Varying Trophic States

Jaimen Hampton, Hamline University

**Wellness Center - Kiosk 46 Side A**

The Effect of Light Quantity on Sex Ratios in a Plant Population

Justin Cornett, University of Kentucky

**Wellness Center - Kiosk 46 Side B**

Whole-Genome Epidemiology of Environmental Salmonella: Monitoring Potential Threats to Public Health

Charles Holmes II, James Madison University

**Wellness Center - Kiosk 46 Side C**

Molecular Docking-Guided Design and Synthesis of Lactate Dehydrogenase-A Inhibitors as Potential Anticancer Agents

Raymond Lenger, Southwestern Oklahoma State University

**Wellness Center - Kiosk 46 Side D**

The Effects of Reduced Astrocyte Beclin 1 on Retromer Trafficking and Receptor-mediated Phagocytosis

Yuberki Delgadillo, Eastern Connecticut State University

**Wellness Center - Kiosk 25 Side A**

Absorption in Patients with Long-chain Fatty Acid Oxidation Disorders

Mariama Njie, Iona College

**Wellness Center - Kiosk 25 Side B**

Regioselective and Ratio Controlled Conjugation of Fluorophores to Trastuzumab Antibody Fragment

Naomy De Los Santos, Iona College

**Wellness Center - Kiosk 25 Side C**

Synthesis & Evaluation of Lipid a Inhibitors as Potential Anticancer Agents

Raymond Lenger, Southwestern Oklahoma State University

**Wellness Center - Kiosk 25 Side D**

Synthesis & Evaluation of Lipid a Inhibitors on Gram-negative Bacteria

Claire Fergusson, Black Hills State University

**Wellness Center - Kiosk 26 Side A**

The Role of triacylglycerols in Lipid Metabolism

Naomy De Los Santos, Iona College

**Wellness Center - Kiosk 26 Side B**

Fluoride Concentration in Water from College Campuses in North Texas

Audrey Peacock, Tarrant County College District

**Wellness Center - Kiosk 26 Side C**

Fluoride Concentration in Water from College Campuses in North Texas

Audrey Peacock, Tarrant County College District

**Wellness Center - Kiosk 26 Side D**

Fluoride Concentration in Water from College Campuses in North Texas

Audrey Peacock, Tarrant County College District

**Wellness Center - Kiosk 27 Side A**

Fluoride Concentration in Water from College Campuses in North Texas

Audrey Peacock, Tarrant County College District

**Wellness Center - Kiosk 27 Side B**

Fluoride Concentration in Water from College Campuses in North Texas

Audrey Peacock, Tarrant County College District

**Wellness Center - Kiosk 27 Side C**

Fluoride Concentration in Water from College Campuses in North Texas

Audrey Peacock, Tarrant County College District

**Wellness Center - Kiosk 27 Side D**

Fluoride Concentration in Water from College Campuses in North Texas

Audrey Peacock, Tarrant County College District

**Wellness Center - Kiosk 28 Side A**

Fluoride Concentration in Water from College Campuses in North Texas

Audrey Peacock, Tarrant County College District

**Wellness Center - Kiosk 28 Side B**

Fluoride Concentration in Water from College Campuses in North Texas

Audrey Peacock, Tarrant County College District

**Wellness Center - Kiosk 28 Side C**

Fluoride Concentration in Water from College Campuses in North Texas

Audrey Peacock, Tarrant County College District

**Wellness Center - Kiosk 28 Side D**

Fluoride Concentration in Water from College Campuses in North Texas

Audrey Peacock, Tarrant County College District

**Wellness Center - Kiosk 29 Side A**

Fluoride Concentration in Water from College Campuses in North Texas

Audrey Peacock, Tarrant County College District

**Wellness Center - Kiosk 29 Side B**

Fluoride Concentration in Water from College Campuses in North Texas

Audrey Peacock, Tarrant County College District

**Wellness Center - Kiosk 29 Side C**

Fluoride Concentration in Water from College Campuses in North Texas

Audrey Peacock, Tarrant County College District

**Wellness Center - Kiosk 29 Side D**

Fluoride Concentration in Water from College Campuses in North Texas

Audrey Peacock, Tarrant County College District

**Wellness Center - Kiosk 30 Side A**

Fluoride Concentration in Water from College Campuses in North Texas

Audrey Peacock, Tarrant County College District

**Wellness Center - Kiosk 30 Side B**

Fluoride Concentration in Water from College Campuses in North Texas

Audrey Peacock, Tarrant County College District

**Wellness Center - Kiosk 30 Side C**

Fluoride Concentration in Water from College Campuses in North Texas

Audrey Peacock, Tarrant County College District

**Wellness Center - Kiosk 30 Side D**

Fluoride Concentration in Water from College Campuses in North Texas

Audrey Peacock, Tarrant County College District

**Wellness Center - Kiosk 31 Side A**

Fluoride Concentration in Water from College Campuses in North Texas

Audrey Peacock, Tarrant County College District

**Wellness Center - Kiosk 31 Side B**

Fluoride Concentration in Water from College Campuses in North Texas

Audrey Peacock, Tarrant County College District

**Wellness Center - Kiosk 31 Side C**

Fluoride Concentration in Water from College Campuses in North Texas

Audrey Peacock, Tarrant County College District

**Wellness Center - Kiosk 31 Side D**

Fluoride Concentration in Water from College Campuses in North Texas

Audrey Peacock, Tarrant County College District

**Wellness Center - Kiosk 32 Side A**

Fluoride Concentration in Water from College Campuses in North Texas

Audrey Peacock, Tarrant County College District

**Wellness Center - Kiosk 32 Side B**

Fluoride Concentration in Water from College Campuses in North Texas

Audrey Peacock, Tarrant County College District

**Wellness Center - Kiosk 33 Side A**

Fluoride Concentration in Water from College Campuses in North Texas

Audrey Peacock, Tarrant County College District

**Wellness Center - Kiosk 33 Side B**

Fluoride Concentration in Water from College Campuses in North Texas

Audrey Peacock, Tarrant County College District

**Wellness Center - Kiosk 33 Side C**

Fluoride Concentration in Water from College Campuses in North Texas

Audrey Peacock, Tarrant County College District

**Wellness Center - Kiosk 33 Side D**

Fluoride Concentration in Water from College Campuses in North Texas

Audrey Peacock, Tarrant County College District

**STUDENT POSTER SESSION 5 - FRI 8:30AM-9:30AM**
STUDENT POSTER SESSION 5 -
FRI 8:30AM-9:30AM

Wellness Center - Kiosk 26 Side B
Synthesis of Variable Sized Silver for the Binding and Delivery of Drug Derivatives
Ally Eubanks, Georgia College and State University

Wellness Center - Kiosk 26 Side C
The Matrix Effect on the Uptake Capacities of Magnetic Iron Composites
Lauren Mitchell, Bethel College

Wellness Center - Kiosk 31 Side A
Study of the Binding Interactions Between Human Serum Albumin and Atrazine in Atrazine-ESA Using High Performance Affinity Chromatography
Sidney Trenhaile, University of Nebraska at Kearney

Wellness Center - Kiosk 31 Side C
Synthesis of a Cyclophane Bearing Two Benz[a]anthracene Units Connected at 5 and 7 Positions with Two Naphth-1,4-diyl Groups
Josef Heller, West Virginia University

Wellness Center - Kiosk 31 Side B
Preliminary Identification of Volatiles Produced by the Nursery-web Spider Pisaurina mira
Aminah Muhammad, Susquehanna University

Wellness Center - Kiosk 38 Side A
Synthesis and Utilization of New Sulfonium Salt Photosensitizers
Megan Pries, University of Wisconsin - Whitewater

Wellness Center - Kiosk 38 Side B
The Extraction and Quantification of Resveratrol from Powder and Liquid Supplements
Anna Bitzer, Hamline University

Wellness Center - Kiosk 38 Side C
Use of Ferulic Acid Derivatives for Pain Relief
Wuilian Martinez, University of Nebraska at Kearney

Wellness Center - Kiosk 40 Side A
Phospholipid-Small Molecule Interactions: Influences on Membrane Thermal Behavior Studied by DSC
anethese jayanath, Iona College

Wellness Center - Kiosk 40 Side B
Single Crystal Growth and Characterization of A2m4 Compounds (a = C5h7n2, C6h5c2h4n3h3; M = Zn, Cd, Hg; X = Cl, Br, I)
Samuel Bayliff, University of Oklahoma Norman Campus

Wellness Center - Kiosk 40 Side C
Synthesis of Fluorinated Alkyl Pyrophosphates for Chemoenzymatic Diversification of Natural Products
Johanna Masterson, University of Oklahoma Norman Campus

Wellness Center - Kiosk 18 Side A
Catastrophic Health Spending in Uganda
Timothy Cheng, University of the Pacific

Wellness Center - Kiosk 18 Side B
Effects of Agricultural Nutrient Additives on Surface Water Quality
Jimmy Chin, University of North Carolina, Chapel Hill

Wellness Center - Kiosk 18 Side C
Impact of Gulf Storms on Oil and Natural Gas Prices
LaLa Samara, University of Central Oklahoma

Wellness Center - Kiosk 53 Side A
Teacher Turnover in Relation to Comparable Professions
Manas Vemuri, University of Michigan

Wellness Center - Kiosk 53 Side B
What Causes the Donations for NPO’s to Decrease?
Kendra Gift, Southwestern Oklahoma State University

EDUCATION

Wellness Center - Kiosk 21 Side A
Collaboration: Teacher Perspectives of Collaboration Practices Within an Elementary School Setting
Kaylee Parker, Young Harris College

Wellness Center - Kiosk 21 Side B
Physics Hertz!: An Analysis of the Language Demands of the Physics Classroom
George Day, California University of Pennsylvania

Wellness Center - Kiosk 21 Side C
The Language Barrier for Language Minority Students
Tamara Montes, University of Alabama at Birmingham

TECHNOLOGY

Wellness Center - Kiosk 12 Side A
Adjustable Compliant Mechanism Load Deflection Test Bench
Franklin Woods, Kennesaw State University

Wellness Center - Kiosk 12 Side C
Dynamic Contact Angle Measurements
Jomarie Leblanc, Midwestern State University

Wellness Center - Kiosk 45 Side B
CFD Modeling of the Effect of Leading-edge Tubercles and Trailing Edge Serrations on Flow Passing an Airfoil
Diana Hanks, University of West Florida

Wellness Center - Kiosk 45 Side C
Effect of Key Factors Contributing to Cross-programming in RFID Multi-tag Applications
Ibrahim Appleton, University of Kentucky

Wellness Center - Kiosk 51 Side A
Comparison of New and Innovative Deicing Materials for Winder Roadway Safety Improvement
Kacie Zangel, Minnesota State University, Mankato

Wellness Center - Kiosk 51 Side B
Emissions Analysis of Synthetic Diesel for Off-Road Heavy-Duty Equipment
Christian Hushion, West Virginia University

Wellness Center - Kiosk 51 Side C
Mission to Mars
Joshua Rodriguez, San Jacinto College Honors Program

ENGINEERING/ENGINEERING TECHNOLOGY

Wellness Center - Kiosk 12 Side A
Adjustable Compliant Mechanism Load Deflection Test Bench
Franklin Woods, Kennesaw State University

Wellness Center - Kiosk 12 Side C
Dynamic Contact Angle Measurements
Jomarie Leblanc, Midwestern State University

Wellness Center - Kiosk 45 Side B
CFD Modeling of the Effect of Leading-edge Tubercles and Trailing Edge Serrations on Flow Passing an Airfoil
Diana Hanks, University of West Florida

Wellness Center - Kiosk 45 Side C
Effect of Key Factors Contributing to Cross-programming in RFID Multi-tag Applications
Ibrahim Appleton, University of Kentucky

Wellness Center - Kiosk 51 Side A
Comparison of New and Innovative Deicing Materials for Winder Roadway Safety Improvement
Kacie Zangel, Minnesota State University, Mankato

Wellness Center - Kiosk 51 Side B
Emissions Analysis of Synthetic Diesel for Off-Road Heavy-Duty Equipment
Christian Hushion, West Virginia University

Wellness Center - Kiosk 51 Side C
Mission to Mars
Joshua Rodriguez, San Jacinto College Honors Program
STUDENT POSTER SESSION 5 - FRI 8:30AM-9:30AM

Wellness Center - Kiosk 57 Side A
*Disk Cam Synthesis & Simulation*
Cole Prather, University of Central Oklahoma

Wellness Center - Kiosk 57 Side B
*Fin Optimization for Enhanced Flight Performance on an Experimental Rocket*
Aharav Dayre, San Jose State University

Wellness Center - Kiosk 57 Side C
*Performance Characterization of a PV Module for Multiple Operating Parameters*
Adrina Bourang, San Jose State University

ENVIRONMENTAL STUDIES & SCIENCES

Wellness Center - Kiosk 7 Side A
*An Examination of the Relationship Between Water Resources and Conflict*
Joanne Hong, George Mason University

Wellness Center - Kiosk 7 Side B
*Carrion Community Dynamics of Burned Carcasses*
Aurora Johnston, George Mason University

Wellness Center - Kiosk 17 Side B
*Student Perceptions of GMOs*
Tatiana Smithson, Kennesaw State University

HEALTH SCIENCES & PUBLIC HEALTH

Wellness Center - Kiosk 39 Side A
*Fitness at Your Fingertips*
Shan Antony, Indiana State University

Wellness Center - Kiosk 39 Side B
*Investigation of Ambient PM 2.5 Concentrations in Lima, Peru*
Joseph Self, University of Michigan

STUDENT POSTER SESSION 5 - FRI 8:30AM-9:30AM

Wellness Center - Kiosk 47 Side A
*A Changing Cultural Landscape in the Sunnyside Neighborhood of Morgantown, West Virginia*
Elizabeth Satterfield, West Virginia University

Wellness Center - Kiosk 2 Side B
*Equality of Opportunity: The Racial Significance of The Elementary and Secondary Education Act*
Olivia Branscum, Southwestern Oklahoma State University

Wellness Center - Kiosk 2 Side C
*Forgotten by the Culture of Memory: the West German-Centered Erinnerungskultur and Its Effect on the East-West Divide in Modern Germany*
Hunter Jones-Le Duc, Niehoff School of Nursing

INTERDISCIPLINARY STUDIES

Wellness Center - Kiosk 28 Side C
*Validation of an Automated Body Condition Scoring Camera for Dairy Cattle*
Israel Mullins, University of Kentucky

Wellness Center - Kiosk 47 Side A
*Fragmenta Ne Percessit: A Translation and Analysis of the Endpapers of MS Latin Kentuckiensis III*
Alyssa Merika, University of Kentucky

Wellness Center - Kiosk 47 Side B
*The One Who Speaks with Liveliness: a Contextual Analysis of Perceptions of La Malinche and Her Role in the Conquest of the Aztecs*
Stephanie Rendon, Lone Star College System The Honors College

HISTORY

Wellness Center - Kiosk 47 Side C
*The Protective Health Effects of Natural Dietary Products on Disease and Aging Category: Poster or Oral*
George Sandu, Adelphi University

KINESIOLOGY & EXERCISE SCIENCE

Wellness Center - Kiosk 4 Side A
*Analyzing East Asian International Student Perceptions and Usage of Marijuana and Changes in Alcohol Consumption*
Andrea Lee, Miami University

Wellness Center - Kiosk 4 Side B
*Impact of an Exercise Physiology Assignment on Communication Apprehension and Labyrinth Effect*
Samantha McAvoy, University of Central Oklahoma

Wellness Center - Kiosk 4 Side C
*The Role of Psychological Reactance as an Explanatory Mechanism for Failed Attempts at Weight Loss*
Ezekiel Wariboko-Alali, University of Central Oklahoma

LINGUISTICS

Wellness Center - Kiosk 36 Side A
*Real-time Pragmatic Processing with an Artificial Lexicon*
Bethany Gardner, University of Rochester

Wellness Center - Kiosk 36 Side B
*Oklahoma Perceptual Dialectology*
Emily Hughes, Oklahoma State University

MICROBIOLOGY & IMMUNOLOGY

Wellness Center - Kiosk 1 Side A
*Influences of Ovary Function on Longevity and Health*
Kyleigh Tyler, Utah State University

Wellness Center - Kiosk 1 Side B
*Machine Learning Analysis of Immunological Predictors in the Onset of Graft Versus Host Disease Following Hematopoietic Stem Cell Transplantation*
Camille David, Wake Forest University

Wellness Center - Kiosk 1 Side C
*The Effect of Asimina Triloba Extract on Quorum Sensing in Chromobacterium violaceum and Biofilm Production in Pseudomonas aeruginosa*
Sabrina Lamont, George Mason University

Wellness Center - Kiosk 33 Side A
*Diversity Among Phages Infecting the Host Corynebacterium*
Alexander Winters, University of Alabama at Birmingham

Wellness Center - Kiosk 58 Side A
*Exploring the Influence of Dance for Parkinson’s Disease on Cognition and Functional Mobility*
Kirsten Hizer, Jacksonville University

Wellness Center - Kiosk 58 Side B
*Sleep Deprivation: Effects on Peak Power (Anaerobic Capacity)*
Collin Fleecs, University of Nebraska at Kearney

Wellness Center - Kiosk 58 Side C
*Carbohydrate Effect on Blood Glucose Levels*
Grayson Stout, Gustavus Adolphus College

Post Training
Wellness Center - Kiosk 33 Side B
Isolation and Characterization of 5 Novel Phages Infecting the Host Corynebacterium xerosis
Shriya Meesala, University of Alabama at Birmingham

Wellness Center - Kiosk 33 Side C
An Analysis of the Clinical and Demographic Data from 2015-16 Influenza A Virus Positive Patients in the Johns Hopkins Healthcare System
Paul Delgado, University of Oklahoma Norman Campus

Wellness Center - Kiosk 60 Side A
The Good, the Bad, the E. coli: a Prevalence Study of Antibiotic Resistance Genes in Escherichia coli Within the Waterways of Northwest Ohio
Sarah Klaus, The University of Findlay

Wellness Center - Kiosk 60 Side B
Acute Social Defeat Stress Induces Microglial Activation in Key Limbic Regions
Thomas Clarity, University of Tennessee at Knoxville

Wellness Center - Kiosk 13 Side B
Effect of Western Diet and Bariatric Surgery on Hypothalamic Inflammation in Mice
Sruhi Ramesh, Wayne State University

Wellness Center - Kiosk 54 Side A
Recovery of Adult Neural Stem Cells from Alginate Hydrogels
Laura Pesquera, Iowa State University

Wellness Center - Kiosk 54 Side B
Stereotactically Targeting Inferior Olive Neurons in Mice to Assess Climbing Fiber Function
Shreya Malhotra, University of Alabama at Birmingham

Wellness Center - Kiosk 34 Side A
Electrical Conductivity and Band Gap Modulation of Polycrystalline Films of Copper (I) Iodide and Copper (I) Thiocyanates by Doping Iodides and Thiocyanates
Joshua harwell, University of West Georgia

Wellness Center - Kiosk 34 Side B
Scattering from Defects in Prototype Optical Coatings for LIGO Test Masses
Calley Tonison, Embry-Riddle Aeronautical University

Wellness Center - Kiosk 34 Side C
Structural Studies of Transition Metal Ionic Liquids Using Anomalous X-ray Scattering at the Advanced Photon Source
Mayson Whipple, North Central College

PHYSIOLOGY
Wellness Center - Kiosk 50 Side A
Characterization of Novel LncRNA Transcriptional Regulators of Contractile Protein Genes
Jessica Resnick, Mercer University

Wellness Center - Kiosk 50 Side B
Sex Specific Differences in Cardiac Fibrosis
Gregory Milburn, University of Kentucky

Wellness Center - Kiosk 50 Side C
Defective Tooth Enamel in a HCO3-transporter Null Mouse
alsane mballo, University at Buffalo, State University of New York

PSYCHOLOGY
Wellness Center - Kiosk 3 Side A
Title: Exploration of the Meaning of African Dance for Minority Students
Shannon Alford, Clark Atlanta University

Wellness Center - Kiosk 3 Side B
Examining the Effect of Honor Culture on Mental Health Stigma
Lynn Bui, University of Oklahoma Norman Campus

Wellness Center - Kiosk 3 Side C
Audio-Visual Proactive Interference
Haley Williams, University of Science and Arts of Oklahoma

Wellness Center - Kiosk 10 Side A
A Mixed Method Analysis of Women Who Have Experienced Intimate Partner Violence
Janeyra Mitchell, Clark Atlanta University

Wellness Center - Kiosk 10 Side B
Food Detection Response Times: Meat-Eaters vs. Vegetarians
Ashtin Dunham, University of Central Oklahoma

Wellness Center - Kiosk 10 Side C
Parenting Behaviors, Family Dynamics, and Child Social Competence in Ecuador
Jordan Shuler, Weber State University

Wellness Center - Kiosk 16 Side A
Applying a Tootling Intervention to Special Education
Jenna Macziewski, Minnesota State University, Mankato

Wellness Center - Kiosk 19 Side A
The Effects of a Social-Belonging Intervention on First Year College Student Success
Leah Friesen, Bethel College

Wellness Center - Kiosk 19 Side B
The Impact of Anxiety on Working Memory
Nicole Weber, Luther College
<table>
<thead>
<tr>
<th>Wellness Center - Kiosk 19 Side C</th>
<th>Wellness Center - Kiosk 48 Side C</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>They Do Say You Date Your Parents: Attachment and Relationships</strong></td>
<td><strong>Self-Concept Throughout the Semester</strong></td>
</tr>
<tr>
<td>Cayla Checorski, University of Central Oklahoma</td>
<td>Cassidy McKnight, University of Central Oklahoma</td>
</tr>
<tr>
<td>Wellness Center - Kiosk 29 Side B</td>
<td>Wellness Center - Kiosk 49 Side A</td>
</tr>
<tr>
<td><strong>Clinician-Patient Interactions Regarding Treatment Choice</strong></td>
<td><strong>The Dark Triad in the Realm of Politics</strong></td>
</tr>
<tr>
<td>Alice Pham, University of Memphis</td>
<td>Kelly Kennedy, Luther College</td>
</tr>
<tr>
<td>Wellness Center - Kiosk 29 Side C</td>
<td>Wellness Center - Kiosk 49 Side B</td>
</tr>
<tr>
<td><strong>Deficits in Executive Function Associated with Substance Abuse: a Comparison Between Alcohol and Marijuana Use</strong></td>
<td><strong>The Effect of Age on Dissociative Disorder Treatment Intervention Outcomes</strong></td>
</tr>
<tr>
<td>Sarah Vanegas, University of Kentucky</td>
<td>Victoria Welsh, Towson University</td>
</tr>
<tr>
<td>Wellness Center - Kiosk 44 Side A</td>
<td>Wellness Center - Kiosk 49 Side C</td>
</tr>
<tr>
<td><strong>A Separation of Church and State: When Religious Values and Political Beliefs Conflict</strong></td>
<td><strong>PTSD: Risk Factors and Daily Functioning in a Ukrainian Sample</strong></td>
</tr>
<tr>
<td>Susie Schoenrock, University of Wisconsin - La Crosse</td>
<td>Elizabeth Hilton, Eastern Connecticut State University</td>
</tr>
<tr>
<td>Wellness Center - Kiosk 44 Side B</td>
<td>Wellness Center - Kiosk 55 Side A</td>
</tr>
<tr>
<td><strong>Behavioral Engagement During Conflict and Support Interactions in Married Couples</strong></td>
<td><strong>The Working Mother and Employment Policy: Relationships Between Psychosocial and Work-related Variables</strong></td>
</tr>
<tr>
<td>Amer Tamir, Wayne State University</td>
<td>Linnea Faccenda, Duquesne University</td>
</tr>
<tr>
<td>Wellness Center - Kiosk 44 Side C</td>
<td>Wellness Center - Kiosk 55 Side B</td>
</tr>
<tr>
<td><strong>Demographic Factor's Potential Influence on Anxiety and Depression Symptomology</strong></td>
<td><strong>What is the Effect of High or Low-fat Diet on Spatial Learning in the Radial-arm Maze in Long-Evans Rats?</strong></td>
</tr>
<tr>
<td>Eli Cadena-Bowles, University of Central Oklahoma</td>
<td>Hannah Stauffer, Susquehanna University</td>
</tr>
<tr>
<td>Wellness Center - Kiosk 48 Side A</td>
<td>Wellness Center - Kiosk 55 Side C</td>
</tr>
<tr>
<td><strong>The Effects of Video Game Genre and Environment Lighting on Emotional Experience</strong></td>
<td><strong>The Role of Implicit Race and Gender Attitudes in the Generation of Competency Estimations</strong></td>
</tr>
<tr>
<td>Katrina Kazmierski, North Central College</td>
<td>Sheila O’Sullivan, Adelphi University</td>
</tr>
<tr>
<td>Wellness Center - Kiosk 48 Side B</td>
<td>Wellness Center - Kiosk 59 Side B</td>
</tr>
<tr>
<td><strong>The Enhancing Effect of Attention</strong></td>
<td><strong>The Experience of College Students with Asthma</strong></td>
</tr>
<tr>
<td>Jeremy Willbourn, University of Wisconsin - Parkside</td>
<td>Kayla Humston, Western Carolina University</td>
</tr>
</tbody>
</table>

**SOCIOLOGY**

<table>
<thead>
<tr>
<th>Wellness Center - Kiosk 14 Side B</th>
<th>Wellness Center - Kiosk 23 Side A</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Challenges to Student Success</strong></td>
<td><strong>Piezoelectric Fog Generator for Sustainability Demonstration</strong></td>
</tr>
<tr>
<td>Shames Alaesa, Tarrant County College District</td>
<td>muhammad sheikh, San Jacinto College Honors Program</td>
</tr>
<tr>
<td>Wellness Center - Kiosk 14 Side C</td>
<td>Wellness Center - Kiosk 23 Side B</td>
</tr>
<tr>
<td><strong>Neighbor Influence: Social Connectivity and the Adoption of Conservation Agriculture</strong></td>
<td><strong>An Investigation of a Mass Flow Rate Method for Evaluating the Filterability of Hydraulic Fluids</strong></td>
</tr>
<tr>
<td>Sadie Higgins, Hampshire College</td>
<td>Tahseen Tabassum, Stony Brook University</td>
</tr>
<tr>
<td>Wellness Center - Kiosk 22 Side A</td>
<td>Wellness Center - Kiosk 23 Side C</td>
</tr>
<tr>
<td><strong>Perspectives on Sexual Fluidity Through the Lifespan</strong></td>
<td><strong>Investigation of Modified Kudzu Proteins as an Alternative Adhesive for Wood Composites</strong></td>
</tr>
<tr>
<td>Margaret Leon, University of Central Oklahoma</td>
<td>Phong Ly, Mississippi State University</td>
</tr>
<tr>
<td>Wellness Center - Kiosk 22 Side C</td>
<td></td>
</tr>
<tr>
<td><strong>What Do LGBTQ+ Students Want from Their Mental Health Professional? A Mixed Method Analysis of Therapeutic Experiences, Expectations, and Recommendations</strong></td>
<td><strong>Perspectives on Sexual Fluidity Through the Lifespan</strong></td>
</tr>
<tr>
<td>Jessica Sumner, Mercer University</td>
<td>Margaret Leon, University of Central Oklahoma</td>
</tr>
</tbody>
</table>
STUDENT POSTER SESSION 6 - FRI 9:45AM-10:45AM

ART HISTORY

Wellness Center - Kiosk 44 Side A
Interpreting the Tyranny of Italian Renaissance: A Comparative Study of Artwork by Kehinde Wiley and Yin Xin
Kristen Martin, University of Central Oklahoma

Wellness Center - Kiosk 44 Side B
Vaginal Imagery & Female Identity: The Art of Alicia Zebrowska and Hannah Wilke
Elizabeth Suarez-Montero, University of Central Oklahoma

Wellness Center - Kiosk 44 Side C
Women Artist at War
Beth Anderson, University of Central Oklahoma

BIOCHEMISTRY

Wellness Center - Kiosk 12 Side A
Synthesis and Characterization of Ruthenium and Manganese: CORM Complexes with Bisemicrobazine Ligands
Hannah Daniels, The University of Virginia’s College at Wise

Wellness Center - Kiosk 12 Side B
Synthesis and Evaluation of Five Flexible Heteroarotinoids on Methicillin-resistant and Non-resistant Staphylococcus aureus Cell Viability
Hyun Meen Park, University of Central Oklahoma

Wellness Center - Kiosk 56 Side A
Translational Control
Jie Zhou, University of Rochester

Wellness Center - Kiosk 56 Side B
Optimization of the Expression of Tetracycline

MONOOXYGENASE: AN ENZYME CONFERRING ANTIBIOTIC RESISTANCE TO PATHOGENIC BACTERIA
Adriana Cordero, Texas A & M University - Kingsville

Oxidative Damage in Sjogren’s Syndrome Patients Using ELISA Assays
Huyen Tran, University of Central Oklahoma

Characterization of Pluronic F-127/Pectin Hydrogel for Potential Tissue Engineering Applications
Elizabeth Bryant, Letourneau University

Implementation of Quantum Information Processing in Genetic Therapy
Aryon Shariati, Virginia Commonwealth University

Orientation Selective Spinal Cord Stimulation
Lauren Madden, University of Minnesota, Twin Cities

Predicting Drug Metabolite Structures
Ayush Kumar, Washington University

Using MRI Segmentation to Differentiate and Diagnose Glioma and Metastasis
Connor Virgile, University of Rochester

Bioengineering

Feeding Habits of Atlantic Bluefin Tuna Thunnus thynnus in the Strait of Gibraltar Using Stable Isotope Datasets
Gabrielle Morris, University of Tennessee at Chattanooga

Synthesis and Evaluation of Five Flexible Heteroarotinoids on Methicillin-resistant and Non-resistant Staphylococcus aureus Cell Viability
Hyun Meen Park, University of Central Oklahoma

Characterization of Pluronic F-127/Pectin Hydrogel for Potential Tissue Engineering Applications
Elizabeth Bryant, Letourneau University

Implementation of Quantum Information Processing in Genetic Therapy
Aryon Shariati, Virginia Commonwealth University

Orientation Selective Spinal Cord Stimulation
Lauren Madden, University of Minnesota, Twin Cities

Predicting Drug Metabolite Structures
Ayush Kumar, Washington University

Using MRI Segmentation to Differentiate and Diagnose Glioma and Metastasis
Connor Virgile, University of Rochester

STUDENT POSTER SESSION 6 - FRI 9:45AM-10:45AM

BIOLOGICAL ENGINEERING

Wellness Center - Kiosk 8 Side B
Quantifying Motion Variability During a Skilled Dance Sequence
Michelle Dickerson, George Mason University

Wellness Center - Kiosk 8 Side C
Characterization of Pluronic F-127/Pectin Hydrogel for Potential Tissue Engineering Applications
Elizabeth Bryant, Letourneau University

Wellness Center - Kiosk 19 Side A
Implementation of Quantum Information Processing in Genetic Therapy
Aryon Shariati, Virginia Commonwealth University

Wellness Center - Kiosk 19 Side B
Orientation Selective Spinal Cord Stimulation
Lauren Madden, University of Minnesota, Twin Cities

Wellness Center - Kiosk 19 Side C
Predicting Drug Metabolite Structures
Ayush Kumar, Washington University

Wellness Center - Kiosk 48 Side A
Using MRI Segmentation to Differentiate and Diagnose Glioma and Metastasis
Connor Virgile, University of Rochester

Wellness Center - Kiosk 48 Side B
Implications of Micra Leadless Pacemaker Extraction for Tricuspid Valve Integrity
Marta Williams, Luther College

Wellness Center - Kiosk 48 Side C
Constructing a Chronic Neural Ensemble Recording System
Thomas Geiser, University of Wisconsin - Whitewater

Wellness Center - Kiosk 20 Side A
Developing an Interactive Application to Analyze Detections of Nanotagged Birds Using R Shiny
Rachel Tham, University of Illinois at Urbana Champaign

Wellness Center - Kiosk 20 Side B
Correlation Between Altered VEGF Signaling & Abnormal Skeletogenesis as a Result of Thalidomide Exposure in Developing Sea Urchin Embryos
Alexis Aument, Susquehanna University

Wellness Center - Kiosk 20 Side C
Effects of Culture Conditions on Poecilia reticulata Embryo Survival
Ian Boals, Eastern Washington University

Wellness Center - Kiosk 37 Side A
Identifying Fatty Acid Species in Transgenic Mice Affected by Hepato cellular Carcinoma
Collin Snitchler, Southern Nazarene University

Wellness Center - Kiosk 37 Side B
How Is Cancer Incidence Driven by Stem Cell Division Rate?
Gia Fisher, Montana State University Bozeman

Wellness Center - Kiosk 37 Side C
The Effects of Caffeine on Insulin Resistant 3T3-L1 Adipocytes
Kristen Kaytes, Susquehanna University

Wellness Center - Kiosk 5 Side A
Aglocam: The Present, Past, and Future of Growth of a Small Company
Austin Dabbs, Salisbury University

Wellness Center - Kiosk 5 Side B
Latino-Owned Banks in the United States and Financial Literacy: How Locally-Owned Banks Contribute to Their Community
Miguel Miranda, University of Wisconsin - Whitewater

Wellness Center - Kiosk 13 Side A
Developing an Interactive Application to Analyze Detections of Nanotagged Birds Using R Shiny
Rachel Tham, University of Illinois at Urbana Champaign

Wellness Center - Kiosk 13 Side B
How Is Cancer Incidence Driven by Stem Cell Division Rate?
Gia Fisher, Montana State University Bozeman

Wellness Center - Kiosk 13 Side C
The Effects of Caffeine on Insulin Resistant 3T3-L1 Adipocytes
Kristen Kaytes, Susquehanna University

Wellness Center - Kiosk 5 Side A
Aglocam: The Present, Past, and Future of Growth of a Small Company
Austin Dabbs, Salisbury University

Wellness Center - Kiosk 5 Side B
Latino-Owned Banks in the United States and Financial Literacy: How Locally-Owned Banks Contribute to Their Community
Miguel Miranda, University of Wisconsin - Whitewater
STUDENT POSTER SESSION 6 -
FRI 9:45AM-10:45AM

Wellness Center - Kiosk 5 Side C
Managing Millennial Accountants
Joshua Johannes, State University of New York-Brockport

Wellness Center - Kiosk 57 Side C
Effect of Laser Micro-grooving on Titanium
Madison Maloney, NC State University

WELLNESS CENTER KIOSK 57 SIDE A

CELL & MOLECULAR BIOLOGY
Wellness Center - Kiosk 43 Side A
Differential Contributions of Activated YAP and TAZ to the Malignant Phenotypes of Metastatic Prostate Carcinoma Cells
Kevin Rodriguez, San Jacinto College

Wellness Center - Kiosk 43 Side B
Functional Screening of a Metagenomic Library for the Detection of Novel Thermostable Enzymes from an Alkaline Hot Spring in Yellowstone National Park
Nuelani Boize, Montana State University Bozeman

Chemistry
Wellness Center - Kiosk 12 Side C
On the Permeability of Water Across Model Lipid Bilayers
Michael Morales, Iona College

Wellness Center - Kiosk 57 Side A
Silver Nanoparticle Embedded Cotton Fibers for Effective SERS Detection of Toxins
Michael Woods, Kennesaw State University

Wellness Center - Kiosk 57 Side C
Utilizing a Pulsed Waveform to Elute DNA Molecules in 3D Printed Devices for Genome Analysis
Molly Kohlbek, University of Nebraska at Kearney

Communications
Wellness Center - Kiosk 35 Side A
The Relationship Between Consumption of Reality TV and Recall of Rebellious Behavior

Wellness Center - Kiosk 35 Side B
Exploring Differing Media Responses To Diplomatic Events: The Dreyfus Khobragade Incident
Matthew Hebron, Florida State University

ECONOMICS
Wellness Center - Kiosk 26 Side A
Common Core Math Success in Washington State
Brittney Short, Eastern Washington University

Wellness Center - Kiosk 26 Side B
Impact of Earned Income Tax Credit on Female Labor Force Participation Rate - Analysis of Rural vs. Urban Counties
Rachel Maschhoff, University of Minnesota, Duluth

Wellness Center - Kiosk 26 Side C
The Political, Economic & Cultural Influences on China's Housing Market
Andrew Campo, Virginia Military Institute

Wellness Center - Kiosk 61 Side A
The Impact of Ultra-low-cost-carrier Competition on Market Afare
Roselyn Anderson, University of Wisconsin - Stout

Wellness Center - Kiosk 61 Side B
Wastewater Treatment Facilities: A Case Study in Whitewater, WI
Nia-Nicole Mitchell, University of Wisconsin - Whitewater

Wellness Center - Kiosk 9 Side A
Behavior Management Insight from the Field

Wellness Center - Kiosk 9 Side B
How to Facilitate Monitoring Learning Behavior of Undergraduate Students
Kyoko Tsuruta, Musashino University

Wellness Center - Kiosk 9 Side C
Leadership Theories Identified by Metropolitan K-12 and Higher Education Administrators That Impact Their Every Day Work
Amber Davis, University of Central Oklahoma

Electrical Engineering
Wellness Center - Kiosk 29 Side A
Hyperflex Optical Booster Modeling Platform
Yu Chen Xu, McGill University, Montreal (Quebec)

Wellness Center - Kiosk 29 Side B
Performance Analysis of DC-DC Power Converters with Photovoltaic Modules for Battery Charging Applications
Abel Henok, Kennesaw State University

Wellness Center - Kiosk 29 Side C
The Automated Vertical Garden
Madison Maloney, NC State University

Engineering/Engineering Technology
Wellness Center - Kiosk 10 Side B
Continued Development of a Guided Wave Cure Monitoring System for Composite Materials
Madison Maloney, NC State University

Wellness Center - Kiosk 10 Side C
Effect of Laser Micro-grooving on Titanium Implant
Anindita Das, University of Central Oklahoma

Environmental Studies & Sciences
Wellness Center - Kiosk 11 Side A
Analysis of Lead Bioavailability in Urban Soils
Caroline Menunier, Indiana State University

The Council on Undergraduate Research
University of Central Oklahoma

254

The Council on Undergraduate Research
University of Central Oklahoma

255
STUDENT POSTER SESSION 6 - FRI 9:45AM-10:45AM

Wellness Center - Kiosk 11 Side B
Coastal Community Resilience: Strategies to Mitigate the Effects of Climate Change
Eden Craig, University of West Florida

Wellness Center - Kiosk 11 Side C
Growth Characteristics of Oat (Avena Sativa) Grown in Reclaimed Stream Sediment
Sarah Mack, Kean University

Wellness Center - Kiosk 45 Side A
Anthropogenic Climate Change on the Arctic Sea Ice
Kelley Swift, University of Wisconsin - River Falls

Wellness Center - Kiosk 45 Side B
Developing 3-Dimensional Photogrammetry Models of Jurassic Conglomerates in Central CT
Jennifer Croteau, Eastern Connecticut State University

Wellness Center - Kiosk 45 Side C
Heavy Metal Accumulation in Sediments Recovered from the Wabashiki Wetlands and Izzak Walton Lake
Matthew Barley, Indiana State University

HEALTH SCIENCES & PUBLIC HEALTH

Wellness Center - Kiosk 33 Side A
A Pilot Study on Consumption of Apples in Relation to Hypertension, Blood Lipids, Glucose, and Insulin
Kathleen Dwyer, Appalachian State University

Wellness Center - Kiosk 33 Side B
Correlation of Toenail and Blood Lead Concentrations with Cognitive Outcomes in Children from Cincinnati, OH
Juliana Danzer, University of Kentucky

Wellness Center - Kiosk 33 Side C
Health Disparities Seen in Birth Defects Among Various Races Abstract
Shumaila Lakhpati, Baylor University

Wellness Center - Kiosk 39 Side A
HPV Vaccination: Factors Associated With Non-Testing of HPV in The United States
Cristall Merritt, University of West Florida

Wellness Center - Kiosk 39 Side B
Fair Housing Is Not an Option, It’s the Law: the Process of Survey Development for the Oklahoma City Public Housing Authority
Anthony Robinson, University of Central Oklahoma

Wellness Center - Kiosk 49 Side A
Muscle Oxygen Saturation of the Gastrocnemius in Healthy Controls
Henamari Ybay, University of Nebraska at Omaha

Wellness Center - Kiosk 49 Side B
Racial and Gender Differences on Smoking Cessation Aids Among Patients with Cancer
Stephanie Dietz, University of Alabama at Birmingham

Wellness Center - Kiosk 49 Side C
Systemic Inflammation in Electronic Cigarette Users Versus Traditional Smokers
Sebastian Lawson, Weber State University

Wellness Center - Kiosk 52 Side A
Effects of Helicopter Parenting on the Health Care Transition Readiness of Typically Developing College Students: Perceptions of Higher Education Staff
Elizabeth Reeve, Elon University

Wellness Center - Kiosk 52 Side B
Childhood Obesity: The Growing Epidemic
Lindsay Hukill, University of Central Oklahoma

Wellness Center - Kiosk 59 Side A
Alcohol and Marijuana Use and the Relationship to Mental Health in Rural Undergraduate Students
Taylor Karrow, Gustavus Adolphus College

Wellness Center - Kiosk 59 Side B
Childhood Obesity Treatment in Iowa: Primary Care Providers’ and Residents’ Practices and Attitudes
Benjamin Dralle, Iowa State University

INTERDISCIPLINARY STUDIES

Wellness Center - Kiosk 53 Side A
Critical Urban Forms: Involving Youth in the Planning Process
Josephina Matteson, Iowa State University

Wellness Center - Kiosk 53 Side B
The Effect of Initial Conditions on Development of Spatial Morphology in an Artificial Life System
Taylor Wehrs, Doane College

KINESIOLOGY & EXERCISE SCIENCE

Wellness Center - Kiosk 32 Side A
Electronic Cigarettes and the Risk of Rheumatoid Arthritis
Jacob Huchkins, Weber State University

Wellness Center - Kiosk 32 Side B
Effects of a 4-week Segway Training Protocol on Ankle Dorsiflexors and Plantaflexors
Nicole Bilt, West Texas A&M University

Wellness Center - Kiosk 36 Side B
Electromyographic Differences Between Sixth Grade Boys and Girls
Jozelyn Rascon, University of Texas at El Paso

Wellness Center - Kiosk 36 Side C
Comparison of Caloric Expenditure Between a Fitbit Device and Measured Expired Gas Analysis
Kiersten Bredeson, Gustavus Adolphus College

LITERATURE

Wellness Center - Kiosk 17 Side A
“Lambeth Homily 17, Tears, and Otherness”
Hyeree Ellis, Depauw University

Wellness Center - Kiosk 17 Side B
The Michael Field Diaries Digital Archive
Josephine Bliss, Northern Kentucky University

Wellness Center - Kiosk 17 Side C
Walking the Line: Game of Thrones and Shakespeare
Emily Hemmer, University of Nebraska at Kearney

MATHEMATICS

Wellness Center - Kiosk 22 Side A
Determining Factors for Elderly Independent Living
Emily Kelting, University of Central Oklahoma

Wellness Center - Kiosk 22 Side B
Math Circle Spatial Reasoning Activities
Erica Bajo Calderon, University of Central Oklahoma

Wellness Center - Kiosk 36 Side A
Effects of a 4-week Segway Training Protocol on Ankle Dorsiflexors and Plantaflexors
Torque Production
Nicole Bilt, West Texas A&M University

Wellness Center - Kiosk 36 Side B
Electromyographic Differences Between Sixth Grade Boys and Girls
Jozelyn Rascon, University of Texas at El Paso

Wellness Center - Kiosk 36 Side C
Comparison of Caloric Expenditure Between a Fitbit Device and Measured Expired Gas Analysis
Kiersten Bredeson, Gustavus Adolphus College

THE COUNCIL ON UNDERGRADUATE RESEARCH

UNIVERSITY OF CENTRAL OKLAHOMA
STUDENT POSTER SESSION 6 - FRI 9:45AM-10:45AM

Wellness Center - Kiosk 22 Side C
Techniques for Providing Optimal Regulation Levels for Injection Wells in Oklahoma
Will Cranford, University of Central Oklahoma

Wellness Center - Kiosk 34 Side A
Stirling Number Analogy for Counting Graph-Type Partitions
Xiaoyu Meyer, Cameron University

Wellness Center - Kiosk 34 Side B
TerraFemme: An Investigation into a Compostable Menstrual Service
Anna Luisa DaSilva, University of North Carolina - Asheville

Wellness Center - Kiosk 34 Side C
Mitrochondria in Topology
Ryan Fisher, California Lutheran University

MUSIC
Wellness Center - Kiosk 2 Side A
Cheryl Frances-Hoad and Contemporary British Classical Music: Composer, Performers, and Audience
Ethan Seegmiller, Utah State University

Wellness Center - Kiosk 2 Side B
Interactive Learning: The Sounds of Bonnie Chance
Wedly Fowler, University of Tennessee at Knoxville

Wellness Center - Kiosk 2 Side C
The Potential of Principles: A Call for Research into Applying the Alexander Technique in the K-12 Music Classroom
Katherine Matthews, Valparaiso University

NEUROSCIENCE
Wellness Center - Kiosk 23 Side A
Rethinking Multi-sensory Integration: A Study Of Inverse Effectiveness
Allen Chen Chen, University of Rochester

Wellness Center - Kiosk 23 Side B
Perinatal Hyperserotonemia Influences Dopamine Expression in the Midbrain
Zachary Zeider, Mercer University

Wellness Center - Kiosk 38 Side A
Determining the Importance of Randomizing Functional Magnetic Resonance Imaging (fMRI) Stimuli When Studying Stroke Patient Populations
Gauri Patil, University of Rochester

Wellness Center - Kiosk 38 Side B
From Waves to Evidence: Theoretical Bases of Spike Sorting and Spike Train Analysis for Chronic In-Vivo Mammalian Recordings
Ryan Honeck, University of Wisconsin - Whitewater

Wellness Center - Kiosk 38 Side C
Development of a New Protocol for Mapping Language During Awake Brain Surgery
Magdalena Granados, University of Rochester

Wellness Center - Kiosk 55 Side A
Sruw-85 Expression Is Controlled by the Basic-helix-loop-helix Transcription Factor Cnd-1/NeuroD1
Derrick McCalla, Kennesaw State University

Wellness Center - Kiosk 55 Side B
The Effects of Prenatal Stress and Perinatal Choline on Basolateral Amygdala A7 Nicotinic Acetylcholine Receptor (nAChR) Levels
Rob Ledbetter, University of Tennessee at Knoxville

Wellness Center - Kiosk 55 Side C
The Role of Gadd45b in DNA Demethylation and Reward Learning
Guang-En Graham, University of Alabama at Birmingham

PSYCHOLOGY
Wellness Center - Kiosk 4 Side A
Assessment of the Effectiveness of the Pike’s Peak Humane Education Summer Camp
Rebecca Moore, Dominican University of California

Wellness Center - Kiosk 4 Side C
“It’s Not What You Say, but What You Do”: Allyship as a Tool to Attract Black Women to STEM
Samira Foster, Elon University

Wellness Center - Kiosk 58 Side B
The Rise in Hate Crime in the Contemporary United States
Alison Lu, University of Michigan

Wellness Center - Kiosk 58 Side C
White Evangelical Support for Donald Trump in the 2016 Election: An Analysis of Attitudes, Beliefs, and Values
Jessa Schultz, University of Nebraska at Kearney

POLITICAL SCIENCE
Wellness Center - Kiosk 54 Side A
The Effects of US Economic Hegemony on Cultural Values
Johnny Carter, University of Memphis

Wellness Center - Kiosk 54 Side B
The Trump Phenomenon & Latina/o Portrayals in News Media
Josiah Van Egdom, Eastern Washington University

Wellness Center - Kiosk 58 Side A
State Political Ideology and FEMA Spending
Madaline Farmer, Cameron University

Wellness Center - Kiosk 58 Side C
The Potential of Principles: A Call for Research into Applying the Alexander Technique in the K-12 Music Classroom
Katherine Matthews, Valparaiso University

Wellness Center - Kiosk 6 Side A
College Students’ Relationships Between Cell Phones and Anxiety
Casey Morrison, Southern New Hampshire University

Wellness Center - Kiosk 6 Side B
Competitive Sabotage
Dalton Brown, University of Michigan

Wellness Center - Kiosk 6 Side C
Effect of Fidget Spinners on Auditory and Visual Attention
Rebecca Nelson, Eastern Illinois University

Wellness Center - Kiosk 6 Side D
Assessment of the Effectiveness of the Pike’s Peak Humane Education Summer Camp
Rebecca Moore, Dominican University of California
Wellness Center - Kiosk 14 Side A
Perceptions of Phubbing: A Comparison of Self, Friends, and Romantic Partners
Sarah Baugues, Kennesaw State University

Wellness Center - Kiosk 14 Side B
Relationships Between Risk-Taking and Digit Ratio
Cassandra Vorh, Bethel College

Wellness Center - Kiosk 15 Side A
Children’s Perception of Threats
Leila Murphy, University of Central Oklahoma

Wellness Center - Kiosk 15 Side B
Effects of Early Onset Marijuana Use on Executive Functioning Compared to Late Onset Marijuana Use
Sarah Lehman, University of Wisconsin - Milwaukee

Wellness Center - Kiosk 15 Side C
Physiological Measures of Empathy Pain Implicating Mirror Neuron Activity and Gender Differences in Self-Reported Empathy
Malvina Pietrzykowski, Eastern Connecticut State University

Wellness Center - Kiosk 18 Side A
Self-Reported Health of Paternal Figures of Children with and Without Disabilities
Annamarie Rudderow, Susquehanna University

Wellness Center - Kiosk 18 Side B
College Student Future Work Stress Expectations: Does Maslow’s Hierarchy Hold Up?
Breanna Deemer, Motavarian College

Wellness Center - Kiosk 21 Side A
Commanding Without Conscience: Determining the Frequency of Sociopathic Presidents’ Elections
Lindsay Kastroll, California University of Pennsylvania

Wellness Center - Kiosk 21 Side B
Does the Type of Musical Training Influence Working Memory? The Effect of Instrumental, Vocal and Musical Technology Training on Working Memory
Austin Rush, Capital University

Wellness Center - Kiosk 21 Side C
Exploring Self-Construct as a Moderator of the Prosocial Spending Effect
Monica Mazurek, Elmhurst College

Wellness Center - Kiosk 24 Side A
Relationship Quality and Academic Performance
Jennifer Huntley, Adelphi University

Wellness Center - Kiosk 24 Side B
Investigating the Relationship Between Illness Invalidation and Symptom Severity in Individuals with Fibromyalgia
Rebecca Massey, University of Alabama at Birmingham

Wellness Center - Kiosk 25 Side A
Understanding Student Dress Codes and Their Psychosocial Effects
Taylor Edwards, Clark Atlanta University

Wellness Center - Kiosk 25 Side B
Media Influences on Mental Illness Stigma
Mandi Chazette, Eastern Connecticut State University

Wellness Center - Kiosk 25 Side C
Political Knowledge, Candidate Facial Dominance, and Voter Preferences
Anna Edgar, Georgia College and State University

Wellness Center - Kiosk 27 Side A
Adopting Identities: How Socialization Varies Between Adoptive Families
Joseph Walden, University of Kentucky

Wellness Center - Kiosk 27 Side B
Common Misconceptions in Psychological Science
Jackelyn Gehling, Minnesota State University, Mankato

Wellness Center - Kiosk 27 Side C
Embeddedness: A Potential Predictor of Countries’ Attitudes Toward Women and Immigrants.
Morgan Crawford, St. Norbert College

Wellness Center - Kiosk 31 Side A
The Effect of Foreign Accent on Children’s Learning of New Knowledge
Ashley Andino, University of Rochester

Wellness Center - Kiosk 31 Side B
The Impact of Dance on Preschool Children’s Perception of Threats
Danielle Faber, Adelphi University

Wellness Center - Kiosk 31 Side C
The Effect of Virtual Reality-Induced Eye Strain on Visual Acuity and Contrast Perception
Adam Dalessandro, Albright College

Wellness Center - Kiosk 41 Side A
Community Residents’ Attitudes Towards Persons with Intellectual Disabilities Living in Nearby Group Homes
Denise Pascullo, Adelphi University

Wellness Center - Kiosk 41 Side B
Gender Differences in Reports of How Children Learn and the Accuracy of Their Memories
Jade Gomez, Salisbury University

Wellness Center - Kiosk 46 Side A
Effects of Social Media Use on Relationships in a College Student Sample
Samantha Campbell, Tennessee Technological University

Wellness Center - Kiosk 46 Side B
Empathy Across the Lifespan
Hannah Freeman, University of Science and Arts of Oklahoma

Wellness Center - Kiosk 46 Side C
Traumatic Events Predicting OCD Symptomology
Addie Beller, University of Central Oklahoma

Wellness Center - Kiosk 47 Side A
Emotion Regulation, Childhood Abuse, and Alcohol Use Among College Students
Royce Alfred, Kennesaw State University

Wellness Center - Kiosk 51 Side A
Childhood Trauma and Personality Disorders
Nia Chase, Oklahoma State University
STUDENT POSTER SESSION 6 - FRI 9:45AM-10:45AM

Wellness Center - Kiosk 51 Side B
Differentiation of Self and Its Impact on the Development of Post Traumatic Stress Disorder-Symptomology
Tyler Woodall, Lubbock Christian University

Wellness Center - Kiosk 51 Side C
Exploring Sibling Support as a Buffer Between Family Conflict and Adolescent Internalizing Symptoms
Cassidy Fry, University of North Carolina, Chapel Hill

SOCIAL WORK
Wellness Center - Kiosk 50 Side B
Examining the Impact of Mindfulness on Undergraduate Social Work Internships
Jennifer Nowak, University of Wisconsin - Whitewater

Wellness Center - Kiosk 1 Side A
'Keep It To Myself Because It's Weird:' Managing the Stigma of Seeing a Ghost
Courtney Brindisi, Wells College

Wellness Center - Kiosk 1 Side B
Growing Conservation Agriculture: Farmers and Agricultural Education
Elise Martinez, University of Colorado Boulder

Wellness Center - Kiosk 1 Side C
No Justice, No Peace: A Reformulation of Weber's Critique of Authority and Marx's Critique of Social Movements
Henty Wilcox, University of Tennessee at Knoxville

Wellness Center - Kiosk 7 Side C
Where Is the Education of Latinx/as Due to Racial Profiling?
Drew Zadrzynski, University of Wisconsin - Parkside

Wellness Center - Kiosk 30 Side A
Beauty Standards: Helpful or Harmful?
Hailey Varnell, Connors State College

Wellness Center - Kiosk 30 Side B
Economic Entrapment: Student Loan Debt Management
Gabrielle Bridger, Ithaca College

Wellness Center - Kiosk 30 Side C
Resiliency and Revitalization: Regenerative Relationships Between Health Systems and Neighborhoods
Jessie Knapp, Viterbo University

STUDENT POSTER SESSION 7 - FRI 1:30PM-2:30PM

ANTHROPOLOGY & ARCHEOLOGY
Wellness Center - Kiosk 41 Side A
Identifying the Unidentifiable: Using Isotopic Analysis to Develop Biological Histories in Forensic Cases from Flagstaff, Arizona
Taylor Lambieger, Northern Arizona University

Wellness Center - Kiosk 41 Side C
Investigating Imitation: Egyptianizing Limestone Votive Statues at Athienou-Malloura
Katherine Consola, Creighton University

ART HISTORY
Wellness Center - Kiosk 27 Side A
How Dolls Were Used to Push the Nationalist Agenda of Russia and Japan in the 19th & 20th Century
Amber Borum, University of Central Oklahoma

Wellness Center - Kiosk 27 Side B
Shattering Male Sexual Dominance in the United States and Female Genital Mutilation in Nigeria Through Art: A Comparative Study of Women's Fight for Sexual Liberation
Fatima Mohamud, University of Central Oklahoma

Wellness Center - Kiosk 27 Side C
Taking the Veil: A Comparative Exploration of French Veiling Customs in Culture and Art Between the Medieval and Contemporary Eras
Carrie Kouts, University of Central Oklahoma

BIOCHEMISTRY
Wellness Center - Kiosk 4 Side A
Determination of Huminic Acid Content in Surface Waters by HPLC Quantification
Allison O'Neill, George Mason University

Wellness Center - Kiosk 4 Side C
Rin GTPase Regulates Neuronal Apoptosis
Shane D’Souza, University of Kentucky

Wellness Center - Kiosk 16 Side A
Determining Conjugate Diene in Sjogren’s Syndrome Patients Using Spectrophotometry
Huyen Tran, University of Central Oklahoma

Wellness Center - Kiosk 16 Side B
Expression and Purification of PGMRC1, a Putative Sigma-2 Ligand Receptor and Aβ Oligomer Interacting Protein in Neuronal Synapses
Hayley Webber, University of Kentucky

Wellness Center - Kiosk 16 Side C
Sequence Selectivity, Cooperativity, and Competition in the Equilibrium Binding of Psoralen Crosslinking Agents to DNA
Giselle Valdes, Florida International University

Wellness Center - Kiosk 25 Side A
Investigating Fatty Acid Export Following Lipid Droplet Degradation in Skeletal Muscle
Hosam Alkhair, University of Minnesota, Twin Cities

Wellness Center - Kiosk 25 Side B
Metallothionein 1X, an Investigation of Zinc Binding and Regulation by Phosphorylation
Kevin Patel, Kennesaw State University

Wellness Center - Kiosk 25 Side C
NK Cells Exhibit Reduced Cytotoxicity In Hypoxic Conditions
Courtney Collins, Northern Arizona University
Wellness Center - Kiosk 34 Side A
A Novel Spherical Stent for Occlusion of Cancer and Aneurysm
Wen Hsin Yang, University of Rochester

Wellness Center - Kiosk 34 Side B
Developing Photoacoustic Microscopy for in Vivo Label-free Imaging of Tumor Vasculature Development and Therapy
Luis Trevisi, University of Oklahoma Norman Campus

Wellness Center - Kiosk 34 Side C
Lactoferrin Conjugated Silica Nanoparticles: Finding the Optimal Strategy to Traverse the Blood-Brain Barrier
Refat Chowdhury, Florida International University

Wellness Center - Kiosk 18 Side A
Assessing the Genetic Diversity of Native and Nonnative Phragmites (common Reed) in Wisconsin
Rachel Bautzmann, University of Wisconsin - White-Water

Wellness Center - Kiosk 18 Side B
Comparison of Antimicrobial Properties of Different Beer Brewing Methods
Harleigh Robbins, University of Central Arkansas

Wellness Center - Kiosk 18 Side C
Comparing Antimicrobial Properties of Different Beer Brewing Methods
Harleigh Robbins, University of Central Arkansas

Wellness Center - Kiosk 44 Side A
The Role of 16S Ribosomal RNA Methylation in Ribosome Quality Control in E. coli
Varun Chowdhry, University of Rochester

Wellness Center - Kiosk 44 Side B
Quinolone-Topoisomerase Interactions and Resistance: Does the Water-Metal Ion Bridge Play a Role in Staphylococcus aureus Topoisomerase IV?
Remington Hoerr, University of Evansville

Wellness Center - Kiosk 44 Side C
Human Development on Wildlife Diversity in Urban Wooded Ecosystem
Chirstie Nesbit, Tulsa Community College

Wellness Center - Kiosk 5 Side A
Improved Synthesis of 3-(piperidin-4-yl)-3,4-di-hydroquinazolin-2(1H)-one (PDQ)
Alexis Crawford, Georgia College and State University

Wellness Center - Kiosk 5 Side B
Application of Supercritical Fluid Extraction Methods to Compare Highly Oxidized and Unoxidized Camellia sinensis Leaves
Kayla Emerson, Lubbock Christian University

Wellness Center - Kiosk 5 Side C
Synthesis of Novel Flavonoid Derivatives as Acetylcholinesterase Inhibitors for the Treatment of Alzheimer’s Disease
Daniel McGuirk, Georgia College and State University

CELL & MOLECULAR BIOLOGY
Wellness Center - Kiosk 32 Side A
Injury- and Age-dependent Increases in Thy-1 in the Rat Supranuclear Nucleus
Mariissa Andersen, Concordia College - Moorhead

Wellness Center - Kiosk 32 Side B
Defining Essential Regions of Paf53 and Paf49 Using Crispr/cas9
Joanne Adams, University of Central Oklahoma

Wellness Center - Kiosk 32 Side C
Cellular Localization of RADS1D
Clair Chabot, University of South Carolina - Columbia

Wellness Center - Kiosk 37 Side A
Exposure to Chromium (VI) Enhances the Motility of Colorectal Cancer Cells Through Activation of FAK
David Chen, University of Kentucky

Wellness Center - Kiosk 37 Side B
New Dynemin Mutant Screen in Neurospora Crassa Utilizing an in Vivo MCherry Fluorescent Tagged Dynemin Heavy Chain (DHC)
Eden Fitzgibbons, Rockhurst University

CHEMISTRY
Wellness Center - Kiosk 5 Side A
Molecular Strain Typing of Alfalfa Weevils from Nebraska, Utah, and California
Chelsea Jenkins, Utah State University

Wellness Center - Kiosk 5 Side B
Surface Assisted Laser Desorption Ionization Mass Spectrometry (SALDI-MS) Signal Enhancement as a Function of Nanoparticle Size/Surface Area
Michelle Lapak, University of West Florida

Wellness Center - Kiosk 37 Side A
Addressing Structural Liabilities Through Total Synthesis: Towards the Development of Improved Acyldepsipeptide Antibacterials
Joshua Lajan, University of Oklahoma Norman Campus

Wellness Center - Kiosk 38 Side A
Use of iPad and Mobile Devices in Children with Autism Spectrum Disorders: A Systematic Review
Anna Ebert, Oklahoma State University

COMMUNICATION SCIENCES & DISORDERS
Wellness Center - Kiosk 20 Side A
Thermal Analysis of Hydrated Salts: An Undergraduate Inorganic Laboratory Experiment
Alexis Crawford, Georgia College and State University

Wellness Center - Kiosk 20 Side B
Syntactic Complexity of Narratives Produced by Typically Developing Children Ages 4-7
Sarah Tracey, Ithaca College
STUDENT POSTER SESSION 7 -
FRI 1:30PM-2:30PM

Wellness Center - Kiosk 38 Side C
Concussion Training Programs in High School Athletic Programs
Erin Lyman, University of Wisconsin - Whitewater

Wellness Center - Kiosk 39 Side C
Wellness Center - Kiosk 8 Side C
Wellness Center - Kiosk 8 Side B
Wellness Center - Kiosk 8 Side A

Wellness Center - Kiosk 11 Side A
Alternative Justice: Can African American Films Facilitate Viewers’ Positive Image of Black Americans?
Kirsten Owens, Clark Atlanta University

Wellness Center - Kiosk 11 Side B
Girls (Boys) Innovation Academy
Emily Cox, Salisbury University

Wellness Center - Kiosk 11 Side C
The Effect of Campus Alcohol Policies and Stress on College Binge Drinking
Alex Gabriele, Eastern Connecticut State University

Wellness Center - Kiosk 40 Side A
Automated Bird Roost Detection Using Machine Learning
Nazmul Kazi, Montana State University Bozeman

Wellness Center - Kiosk 40 Side B
An Automated Case Notes System for Psychiatrists Using Machine Learning
Eric Tran, Kennesaw State University

Wellness Center - Kiosk 40 Side C
Swipe Right!: Online Dating and College Students
Hayley Mangan, Eastern Connecticut State University

Wellness Center - Kiosk 3 Side C
Wellness Center - Kiosk 3 Side A
Computer Science

Wellness Center - Kiosk 3 Side B
CSPs Applied to UAV Flight Navigation for Applications Within the ASSURE Center for Excellence in UAS at ERAU-DB
Courtney Thurston, Embry - Riddle Aeronautical University

Wellness Center - Kiosk 3 Side A
Implementation of a Web App for SQL Query Evaluation
Bikram Paudel, University of Central Oklahoma

Wellness Center - Kiosk 8 Side A
Development of a Visual PID Positioning Algorithm for a Table-Top Robot
Jordan Miller, Austin PEAY State University

Wellness Center - Kiosk 8 Side B
Revolutionizing Hybrid Parallelization Through Data Communication Techniques
Asante Nkansah, University of Kentucky

Wellness Center - Kiosk 8 Side C
Wall Clock Time of the National Center for Atmospheric Research’s Weather Research and Forecasting Model
Jacob Miller, Southwestern Oklahoma State University

Wellness Center - Kiosk 10 Side A
Automated Bird Roost Detection Using NEXRAD Radar Data and Artificial Neural Networks
Katherine Avery, University of Oklahoma Norman Campus

Wellness Center - Kiosk 10 Side C
Intrusion Detection Using Machine Learning
James Finn, State University of New York-Brockport

Wellness Center - Kiosk 33 Side A
Unsupervised Learning Algorithms for Image Classification
Eric Tran, Kennesaw State University

Wellness Center - Kiosk 33 Side B
Using Long Short Term Memory Network to Train Machine Composing Baroque Fugue Canon
Yifei Chen, Susquehanna University

Wellness Center - Kiosk 47 Side A
Examining the Relationship Between an Increase in the Minimum Wage Rate and the High School Dropout Rate In Eastern Pennsylvania and Western New Jersey
Nathan Arnold, Moravian College

Wellness Center - Kiosk 47 Side B
Gasoline, Emergency Medical Services, and Cross-Price Elasticity of Demand in the Urban Setting
Nathaniel Andrews, Western Carolina University

Wellness Center - Kiosk 47 Side C
Not on My Lawn: The Effects of the Minnesota’s Phosphorus-Free Fertilizer Law on Surface Water Quality
Andrew Hutchens, University of Central Florida

Wellness Center - Kiosk 23 Side A
Differentiated Reading Instruction: Strategies To Reach All Students
Jennifer Rogerson, Bridgewater State University

Wellness Center - Kiosk 23 Side C
Missing Boys: The Limited Portrayal of African American Males in Children’s Books
Mychalene Mullins, University of Central Oklahoma

Wellness Center - Kiosk 28 Side A
Educational Equity in Michigan
Leanne Olona, University of Michigan

Wellness Center - Kiosk 28 Side B
Teacher Perceptions and Effects of Sustained Silent Reading
Elaina Eddy, University of Nebraska at Kearney

Wellness Center - Kiosk 54 Side A
Project Sustainability - Fog Collection
Danh Nguyen, San Jacinto College Honors Program

Wellness Center - Kiosk 54 Side B
Self-Folding of Smart Soft Materials
Victoria Ruszkowski, Oklahoma State University

Wellness Center - Kiosk 55 Side A
Fabrication of Dense UO3 Pellets for Neutron Detection Applications
Jessica Ossyra, University of Tennessee at Knoxville

Wellness Center - Kiosk 55 Side B
Investigations of the Mechanical Properties of Chordal Tendineae of Atrioventricular Heart Valves
Mychaelon Mullins, University of Central Oklahoma

EDUCATION

Wellness Center - Kiosk 23 Side B
Differentiated Reading Instruction: Strategies To Reach All Students
Jennifer Rogerson, Bridgewater State University

Wellness Center - Kiosk 55 Side C
Scaffold Manufacturing by 3D Printing: Cobalt-Chrome - Hydroxyapatite Biocomposite
John Ruprecht, Minnesota State University, Mankato
Wellness Center - Kiosk 31 Side A
China's Influenza Fears: A Wake Up Call From the Past
Tyler Rapp, University of North Carolina, Charlotte

Wellness Center - Kiosk 31 Side B
A New Kind of Dental HIGHgiene
Briannah Baxter, Westmoreland County Community College

Wellness Center - Kiosk 31 Side C
determination of Ochratoxin A in Kentucky Black Walnuts
Bryce Forry, Asbury University

Wellness Center - Kiosk 38 Side B
Assessment of Clinical Practices Used by Speech-Language Pathologists to Measure the Impact of Stuttering on Preschool Age Children and their Families
Victoria Showalter, University of Oklahoma Health Sciences Center

Wellness Center - Kiosk 51 Side A
The Institutional Review Board Process: Data Ownership and Ethics
Tyler Scullaw, University of Central Oklahoma

Wellness Center - Kiosk 51 Side B
Unequal Partners: A Pilot Evaluation Project in Harrisonburg High School
Katherine Kowalk, James Madison University

Wellness Center - Kiosk 51 Side C
Working with Communities: A Methodical Approach to Community Research
Justin Goff, University of Central Oklahoma

Wellness Center - Kiosk 53 Side A
Evaluation of Intimate Partner Violence Curriculum in Residency Training Programs
Jasmine Hurley, University of Utah

Wellness Center - Kiosk 53 Side B
Human Trafficking and Medical Education
Oksana Doubrowki, Wayne State University

Wellness Center - Kiosk 56 Side A
Your Snore Might Mean More
Allison Arendas, Westmoreland County Community College

Wellness Center - Kiosk 56 Side B
Stuck in a Rut: Fixed Vs. Growth Mindset in Health Promotion
Kate Mohr, University of Central Oklahoma

Wellness Center - Kiosk 56 Side C
The Impact of Breastfeeding on Temperament of Babies Up to Six Months of Age
Jessica Hastings Ereth, Gustavus Adolphus College

Wellness Center - Kiosk 59 Side A
Recovery: Mental and Substance Use Disorders in Oklahoma
Giang Doan, University of Central Oklahoma

Wellness Center - Kiosk 59 Side B
Assessing the Needs of Our Communities: Oklahoma City Housing Authority Data Collection Process
McKayla Johnson, University of Central Oklahoma

Wellness Center - Kiosk 21 Side A

The Limits of Being a Woman: Ida Tarbell and the Role of Anti-Suffrage Thought
Emily Burgess, Southwestern Oklahoma State University

Wellness Center - Kiosk 21 Side B
Study of Public Opinion Changes Through Media, on Terrorism
Jordyn Horvath, University of Wisconsin - Stout

Wellness Center - Kiosk 21 Side C

Information Technology
Wellness Center - Kiosk 13 Side B
Understanding Valuation of Personal Information
Lane Skutt, Indiana University

Wellness Center - Kiosk 13 Side A
Air Traffic Control Privatization ... Legally Speaking ... A Good Idea?
Michael Ledermann, Embry-Riddle Aeronautical University

Wellness Center - Kiosk 13 Side C
The Effect of a Sit-to-Stand Workstation on Waist Circumference After 6-Months
Cara Daniels, University of Central Oklahoma

Wellness Center - Kiosk 58 Side A
Do Low Cost Shoes Have Any Negative Musculoskeletal Impacts on the Knee and Foot in Comparison to More Expensive Shoes?
Yashwant Mirajkar, Virginia Commonwealth University

Wellness Center - Kiosk 58 Side B

Kinesiology & Exercise Science
Wellness Center - Kiosk 35 Side A
Relationship Between RFU and Correlates of Muscle Contraction Across a Velocity Spectrum
Alexander Oleszk, State University of New York-Brockport

Wellness Center - Kiosk 45 Side A
The Effect of Beet Juice on the Free Radical Concentration In Athletes
Sydney Hallmark, Gustavus Adolphus College

Wellness Center - Kiosk 45 Side B

Interdisciplinary Studies
Wellness Center - Kiosk 12 Side A
Head+Heart=Hustle: Exploring the Relationship Between Board Performance and Organizational Success
Shadane Franklin, Siena College

Wellness Center - Kiosk 45 Side C
Pay and Policy Transparency in the Workplace
Emilee Costner, University of Central Oklahoma

Wellness Center - Kiosk 35 Side B
The Effect of Beet Juice on the Free Radical Concentration In Athletes
Sydney Hallmark, Gustavus Adolphus College

Wellness Center - Kiosk 35 Side C
The Effect of Beet Juice on the Free Radical Concentration In Athletes
Sydney Hallmark, Gustavus Adolphus College

Wellness Center - Kiosk 34 Side A
The Effect of Beet Juice on the Free Radical Concentration In Athletes
Sydney Hallmark, Gustavus Adolphus College

Wellness Center - Kiosk 34 Side B
The Effect of Beet Juice on the Free Radical Concentration In Athletes
Sydney Hallmark, Gustavus Adolphus College

Wellness Center - Kiosk 34 Side C
The Effect of Beet Juice on the Free Radical Concentration In Athletes
Sydney Hallmark, Gustavus Adolphus College

Wellness Center - Kiosk 40 Side A
The Effect of Beet Juice on the Free Radical Concentration In Athletes
Sydney Hallmark, Gustavus Adolphus College

Wellness Center - Kiosk 40 Side B
The Effect of Beet Juice on the Free Radical Concentration In Athletes
Sydney Hallmark, Gustavus Adolphus College

Wellness Center - Kiosk 40 Side C
The Effect of Beet Juice on the Free Radical Concentration In Athletes
Sydney Hallmark, Gustavus Adolphus College

Wellness Center - Kiosk 41 Side A
The Effect of Beet Juice on the Free Radical Concentration In Athletes
Sydney Hallmark, Gustavus Adolphus College

Wellness Center - Kiosk 41 Side B
The Effect of Beet Juice on the Free Radical Concentration In Athletes
Sydney Hallmark, Gustavus Adolphus College

Wellness Center - Kiosk 41 Side C
The Effect of Beet Juice on the Free Radical Concentration In Athletes
Sydney Hallmark, Gustavus Adolphus College

Wellness Center - Kiosk 39 Side A
The Effect of Beet Juice on the Free Radical Concentration In Athletes
Sydney Hallmark, Gustavus Adolphus College

Wellness Center - Kiosk 39 Side B
The Effect of Beet Juice on the Free Radical Concentration In Athletes
Sydney Hallmark, Gustavus Adolphus College

Wellness Center - Kiosk 39 Side C
The Effect of Beet Juice on the Free Radical Concentration In Athletes
Sydney Hallmark, Gustavus Adolphus College

Wellness Center - Kiosk 38 Side A
The Effect of Beet Juice on the Free Radical Concentration In Athletes
Sydney Hallmark, Gustavus Adolphus College

Wellness Center - Kiosk 38 Side B
The Effect of Beet Juice on the Free Radical Concentration In Athletes
Sydney Hallmark, Gustavus Adolphus College

Wellness Center - Kiosk 38 Side C
The Effect of Beet Juice on the Free Radical Concentration In Athletes
Sydney Hallmark, Gustavus Adolphus College
STUDENT POSTER SESSION 7 - FRI 1:30PM-2:30PM

Wellness Center - Kiosk 45 Side C
Vacation Policy Structure: How To Keep Employees Happy and the Company Profitable
Ashley Hurrell, State University of New York- Brockport

Wellness Center - Kiosk 39 Side A
Wind Speed and Intensity of Tornadoes Compared From East to West In Oklahoma
Vincent Mai, University of Central Oklahoma

Wellness Center - Kiosk 39 Side C
The Mathematical Modeling of Dengue Fever and Its Economic Impact to a Socialist Country Such as Sri Lanka
Alexandra Grazi, Elon University

Wellness Center - Kiosk 17 Side B
Exploring the Relationship Between the Millennial Generation and the Housing Market
Katelyn Switzer, Lander University

Wellness Center - Kiosk 17 Side C
Motivations Behind Undergraduate Volunteering
Haley Histon, Lander University

Wellness Center - Kiosk 17 Side A
Exploring the Relationship Between East and West Preference Differences for Portrait Photo- graphs Between East and West
Elicia Lastra, Dominican University of California

Wellness Center - Kiosk 14 Side C
The Influence of Framing on Appraisal
Rebecca Davis, Albright College

Wellness Center - Kiosk 22 Side A
Negative Appraisal Bias Moderates the Association Between Co-rumination and Depression Among Adolescents
Emily Scarpulla, University of Rochester

Wellness Center - Kiosk 22 Side B
Program and Athletics to Promote Healthy Adult Development: A Study of Paths Through College
Kira Griffith, University of Pittsburgh

Wellness Center - Kiosk 50 Side C
Study of Histological Changes in the Soleus Muscle Post Hemorrhagic Stroke
Samantha Mussehl, University of Minnesota, Twin Cities

MARKETING
Wellness Center - Kiosk 17 Side A
Does Device Type (Smartphone vs. Computer) Affect Consumers’ Perceived Risks and Benefits of Advertised Pharmaceuticals?
Trista Blouin, University of West Florida

Wellness Center - Kiosk 17 Side B
Exploring the Relationship Between the Millennial Generation and the Housing Market
Katelyn Switzer, Carthage College

Wellness Center - Kiosk 17 Side C
Motivations Behind Undergraduate Volunteering
Haley Histon, Lander University

MATHEMATICS
Wellness Center - Kiosk 12 Side A
Evaluating Whether Online Reviews Influence Airline Choice
Angie-Christelle Kouadio, University of Central Oklahoma

Wellness Center - Kiosk 12 Side B
Relating Poisson-Nernst-Planck Equations to Fick’s Law
Shawn Stratte, Eastern Washington University

Wellness Center - Kiosk 12 Side C
Quantifying the Distribution of Urban Vegetation Based on Google Street View Images
Adam Honts, University of Wisconsin - Milwaukee

Wellness Center - Kiosk 3 Side B
The Works of Peter Ritter
Dylan van Vierssen, George Mason University

Wellness Center - Kiosk 3 Side A
The Influence of Framing on Appraisal
Rebecca Davis, Albright College

Wellness Center - Kiosk 42 Side A
Compassion Fatigue in Oklahoma City Nurses
Sabrina Simmons, University of Central Oklahoma

Wellness Center - Kiosk 42 Side B
Factors Influencing Healthcare Professionals’ Motivation to Work with Patients with At-Risk Alcohol and Other Drug (AOD) Use: A Current Review of Literature
Kira Griffith, University of Pittsburgh

MUSIC
Wellness Center - Kiosk 6 Side A
The Works of Peter Ritter
Dylan van Vierssen, George Mason University

NEUROSCIENCE
Wellness Center - Kiosk 1 Side B
Direct Brain Recordings from Children and Adolescents Reveal Diverse Patterns of PFC Involvement in Memory Formation
Mohsin Malik, Wayne State University

Wellness Center - Kiosk 29 Side A
Effectiveness of Levetiracetam Monotherapy in Pediatric Patients with Epilepsy
Rafal Mazur, University of Rochester

Wellness Center - Kiosk 29 Side C
Plasticity of SHT1B and SHT1D Receptor Expression in Human Dental Pulp Across the Menstrual Cycle: A Potential Role of Hormones on Trigeminal Pain
Sushmitha Ananth, Texas Woman’s University

Wellness Center - Kiosk 42 Side C
Subthalamic Nuclei Gamma Frequency Deep Brain Stimulation for Parkinsonian Non-Human Primates
Michelle Chu, University of Minnesota, Twin Cities

PHYSICS
Wellness Center - Kiosk 2 Side B
Detecting Vacuum Birefringence: Why Two Lasers Are Better Than One
Gabriel Alberts, University of Florida

Wellness Center - Kiosk 19 Side A
Rigidity of Romantic Partner Expectations for Growth and Destiny Theorists
Kayla Yellen, University of Rochester

Wellness Center - Kiosk 19 Side C
The Influence of Framing on Appraisal
Rebecca Davis, Albright College

NUTRITION
Wellness Center - Kiosk 7 Side A
Collaboration Between the UCO Nutrition Program and Athletics to Promote Healthy Habits in Student Athletes
Patrick Limon, University of Central Oklahoma

Wellness Center - Kiosk 7 Side B
Effects of Maternal Fish Oil Supplementation on Metabolic Syndrome and Liver Inflammation in Offspring
STEPHANI CLEVENGHER, Texas Tech University

Wellness Center - Kiosk 7 Side C
Impact of Calorically Dense Diets on the 24-hour Rhythmicity of Hippocampal Signaling Molecules
Hira Munir, University of Alabama at Birmingham

PSYCHOLOGY
Wellness Center - Kiosk 14 Side C
Relationship Between Smartphone Apps on Social Capital and Social Isolation in America
Lindsay Kastroll, California University of Pennsylvania

Wellness Center - Kiosk 19 Side A
Rigidity of Romantic Partner Expectations for Growth and Destiny Theorists
Kayla Yellen, University of Rochester

Wellness Center - Kiosk 19 Side C
The Influence of Framing on Appraisal
Rebecca Davis, Albright College

Wellness Center - Kiosk 22 Side A
Negative Appraisal Bias Moderates the Association Between Co-rumination and Depression Among Adolescents
Emily Scarpulla, University of Rochester

Wellness Center - Kiosk 22 Side B
Preference Differences for Portrait Photographs Between East and West
Ellica Lastra, Dominican University of California

NURSING
Wellness Center - Kiosk 42 Side A
Compassion Fatigue in Oklahoma City Nurses
Sabrina Simmons, University of Central Oklahoma

Wellness Center - Kiosk 42 Side B
Factors Influencing Healthcare Professionals’ Motivation to Work with Patients with At-Risk Alcohol and Other Drug (AOD) Use: A Current Review of Literature
Kira Griffith, University of Pittsburgh

PHYSICAL/OCUPATIONAL THERAPY/SPEECH LANGUAGE PATHOLOGY
Wellness Center - Kiosk 50 Side B
Parental Perceptions of the Transition to Adulthood for Their Children with Special Needs
Annamayil Manohar, Texas Woman’s University
STUDENT POSTER SESSION 7 -
FRI 1:30PM-2:30PM

Wellness Center - Kiosk 22 Side C
Social Adjustment and Closeness to God in the First Year
Brittany Chess, Indiana State University

Wellness Center - Kiosk 24 Side B
Student Perceptions of Capacity for Growth in Cognitive and Creative Abilities
Hannah Anderson, University of North Carolina - Asheville

Wellness Center - Kiosk 24 Side C
Assessing Current Supports for LGBTQ+ Students in Rural and Semi-Rural Schools in Central and Southern Minnesota
Alexandria Dobson, Minnesota State University, Mankato

Wellness Center - Kiosk 36 Side A
The Effects of Negative Expectancy Violations During Social Interactions
Talia Cohavi, University of Rochester

Wellness Center - Kiosk 36 Side B
Replication and Extension of Burgess and Cornell, 2016: Does Choice of Game Affect Perceptions of Aggression and Threat
Aaron Cornell, Southwestern Oklahoma State University

Wellness Center - Kiosk 36 Side C
People’s Beliefs About Animacy Do Not Inform Their Memory Judgments
Shelby McMinn, Texas Tech University

Wellness Center - Kiosk 46 Side A
How Ethnic Identity Impacts Suicidality Through Perceived Burdensomeness Among Hispanic Young Adults
Marcos Gallegos, Southern Nazarene University

Wellness Center - Kiosk 46 Side C
Prevalence of Somatic Complaints in Children with ADHD
Sarah Hartmann, University of Louisville

Wellness Center - Kiosk 48 Side A
The Effects Perception of Personal Capability and Group Membership Have on the Likelihood of Forgiveness
Rianne Wrubleski, North Central College

Wellness Center - Kiosk 48 Side B
International Students’ Challenges and Opportunities
Shing Yee Bay, University of Wisconsin - Eau Claire

Wellness Center - Kiosk 49 Side A
Prejudice Associated with Intellectual Disabilities
Be’Ana Byrd, University of Central Oklahoma

Wellness Center - Kiosk 49 Side B
Relevance of the KIBRA 5 Allele in Hippocampal Subfield Volumes and Memory Performance in Development
Urvashi Gupta, Wayne State University

Wellness Center - Kiosk 57 Side A
The Influence of Race and Gender in Children’s Reactions to the 2016 Presidential Election
Desyn Thompson, University of Kentucky

Wellness Center - Kiosk 57 Side B
Willingness to Pay for Social and Non-Social Rewards
Joanne Stasiak, Adelphi University

Wellness Center - Kiosk 57 Side C
Worldview and Demographic Differences in

Kathryn Spence, Lander University

Wellness Center - Kiosk 61 Side A
Motivational Imagery and Its Relationship with Leadership, Self-Efficacy and Self-Confidence in Athletes
Ryan Traub, Susquehanna University

Wellness Center - Kiosk 61 Side B
Does Perceived Wealth Inequality Influence People’s Attitudes Toward Being Greedy?
Kendall Brown, University of Kentucky

Wellness Center - Kiosk 61 Side C
Memory of Love for Parents Among Black and White College Students
Corai Jackson, University of Southern Mississippi

SOFTWARE ENGINEERING
Wellness Center - Kiosk 13 Side C
The Effects of Inverted Game Controls on Default Control Users
Anthony Onukwuli, Kennesaw State University

VISUAL ARTS
Wellness Center - Kiosk 6 Side B
Glass Casting and Inclusions
Mary Abbott, University of Wisconsin - Whitewater

WORLD LANGUAGES
Wellness Center - Kiosk 30 Side A
North Central College Students Learning Mandarin Chinese
Joy Herzog, North Central College

SOCIOLOGY
Wellness Center - Kiosk 9 Side B
How Do You Like Me Now?: An Examination of College Student’s Use of Social Media Sites
James Wheeler III, Bridgewater State University

Wellness Center - Kiosk 15 Side A
Respondents’ Considerations in Rating Self-Health
Aleksy Lingamaneni, University of Michigan

Wellness Center - Kiosk 15 Side B
The Social Psychological Effects of Living in an Urban Milieu
Nicole Cuba, University of Wisconsin - Parkside

Wellness Center - Kiosk 15 Side C
Refugee and Immigrant Success Event (RISE)
Sarah Isaacs, Tarrant County College District

The Influence of Visual Rhetoric
Nicole Escamilla Guardiola, Northern Arizona University

Ownership of Learning in Language for Specific Purposes (LSP) vs. Traditional Classroom Settings
Kennedy Smith, Virginia Military Institute

272
THE COUNCIL ON UNDERGRADUATE RESEARCH

UNIVERSITY OF CENTRAL OKLAHOMA

273
STUDENT POSTER SESSION 8 - FRI 2:45PM-3:45PM

ART HISTORY
Wellness Center - Kiosk 40 Side B
Absurdity as Trauma: An Examination of Maryann’s Personnages
Blair Summers, University of Central Oklahoma

Wellness Center - Kiosk 40 Side C
Life in Nazi Germany Through the Eyes of Two Jewish Painters, Charlotte Salomon and Lucian Freud
Sarah Blank, University of Central Oklahoma

BIOCHEMISTRY
Wellness Center - Kiosk 14 Side A
Enzymatic Inhibition Studies of Histone Deacetylase (HDAC) 1 and 8 by a Dihydroxamic Acid Derivative
Luke Bayless, Northeastern State University

Wellness Center - Kiosk 14 Side B
Identifying Proteins in Alcoholic Fatty Liver Disease
Sunny Vuong, St. Olaf College

Wellness Center - Kiosk 14 Side C
Personalized Diagnosis for Louisa Disease, a Fatal Epilepsy
Jeremiah Wayne, University of Kentucky

Wellness Center - Kiosk 27 Side A
Isolation and Identification of Bacillus anthracis and Aeromonas jandae Inhibition-Component of Water Mold Growth
Asma Al-Odaini, North Central College

Wellness Center - Kiosk 27 Side B
PH Dependent Activity in Phenoxazine

BIOLOGY
Wellness Center - Kiosk 16 Side A
Application and Evaluation of a Novel Cervical Artificial Insemination System for Sheep
Montana Lins, University of Wisconsin - River Falls

Wellness Center - Kiosk 16 Side B
Bovine Carotid Artery Patch Helps Reduce the Incidence of Renal Artery Stenosis in Living Kidney Transplants
Jasmine Boone, University of South Florida

Wellness Center - Kiosk 16 Side C
Differences in Gut Microbiota Profiles Between College Athletes and Nonathletes
Marc Gibson, Elon University

Wellness Center - Kiosk 20 Side A
Association Between Sea Turtle Nesting Density and Nighttime Light: a Geospatial Study
Daniel Garrett, University of West Florida

Wellness Center - Kiosk 20 Side B
Bioactive Fungal Screening to Find Efficient Biomass-Degrading Enzymes
Uriel Vasquez Rios, Hamline University

Wellness Center - Kiosk 20 Side C
Do Sally Lightfoot Crabs (Grapsus grapsus) Segregate Themselves Relative to the Intertidal Splash Zone?
Payton Lenz, College of Saint Benedict/ St. John’s University

Wellness Center - Kiosk 39 Side A
Molecular Characterization of Bacteriophage HMSP-1, a Virus That Infects Nitrogen-Fixing Bacteria
Aldina Imamovic, Hamline University

Wellness Center - Kiosk 39 Side B
Pollin Size as an Indicator of Ploidy Level in Rhexia, a Small Genus of Flowering Plants Endemic to the North American Coastal Plain, in North Florida and Coastal Georgia
Rebecca Dunman and Inappetance in Cynomolgus Monkeys
Marc Gibson, University of Florida

Wellness Center - Kiosk 34 Side A
Synthesis and Structure-Activity Relationship of Alpha-Quaternary Amino Acids as LAT1 Substrates
Brooklynn Venteicher, University of Nebraska at Kearney

Wellness Center - Kiosk 34 Side B
The Synthesis of Polyvalinum Oxy-hydroxide Clusters in Aqueous Conditions Using a Dissolution Process
Christopher Graves, University of Central Oklahoma

Wellness Center - Kiosk 34 Side C
Understanding the Unusual Redox Behavior in the Defect Garnet Type Y2(MoO4)3
Joseph Stiles, University of Southern California

CHEMICAL ENGINEERING
Wellness Center - Kiosk 5 Side A
Recovery and Quantification of Lignin in Panaxium virgatum
Coy Zimmermann, Montana State University Bozeman

Wellness Center - Kiosk 5 Side B
Computational and Experimental Characterization of Lithium Ion Polymer Electrolytes
Clay Elmore, Notre Dame University Of Chicago

CHEMISTRY
Wellness Center - Kiosk 28 Side A
Water Permeability of Asymmetric Droplet Interface Bilayer
Biona O’Sullivan, Iona College

Wellness Center - Kiosk 34 Side A
Synthesis and Structure-Activity Relationship of Alpha-Quaternary Amino Acids as LAT1 Substrates
Brooklynn Venteicher, University of Nebraska at Kearney
Wellness Center - Kiosk 37 Side A  
Disilylation of Aldehydes and Ketones Using a Copper Catalyst  
Wendell Kirkman III, Indiana State University

Wellness Center - Kiosk 37 Side B  
Identification of Photochemicals in Moringa Oleifera  
Francesca Uribe-Rheinbolt, Appalachian State University

Wellness Center - Kiosk 37 Side C  
Optimizing the Rapid Synthesis of Highly Substituted Oxazoles  
Abhishek Purohit, Salisbury University

Wellness Center - Kiosk 43 Side A  
Dry Hopping Versus Steam Distilled Essential Hop Oils: Impact on the Final Aroma, Flavor, and Essential Oil Composition of Beer  
Logan Hamm, Appalachian State University

Wellness Center - Kiosk 43 Side B  
Evaluating North-South Gradients in Ozone Concentrations Via Mobile Platform as a Part of the 2017 Lake Michigan Ozone Study  
Makenna Shaske, University of Wisconsin - Eau Claire

Wellness Center - Kiosk 43 Side C  
Linking Ph, Temperature, K+ Concentration and Conformation for the Dna I-motif  
Tra Nguyen, Texas Woman's University

Functional Larynx and Improve Student Learning  
Julia Clayton, University of Wisconsin - Whitewater

Wellness Center - Kiosk 18 Side A  
Breast and Bottle Feeding Strategies for Infants with Cleft Lip and Palate  
Amanda Michi, Elmhurst College

Wellness Center - Kiosk 18 Side B  
Elaborative Noun Phrase Use in Narratives by School Age Children  
Aubrey Passey, Utah State University

Wellness Center - Kiosk 18 Side C  
The Use of Electropalatography and Traditional Articulation Therapy in Remediating Persistent Speech Sound Errors: A Case Study  
Kathrin Roberts, University of Nebraska at Kearney

Wellness Center - Kiosk 25 Side A  
Computer-Assisted Discovery of Small-Molecule Cancer Immunotherapeutics  
Jeremy Hofer, Widener University

Wellness Center - Kiosk 25 Side B  
Human Pose Classification and Body Part Estimation with Bayesian Models  
Aaron Helmers, Milwaukee School of Engineering

Wellness Center - Kiosk 25 Side C  
The Key To Cryptography: Attacking The Large Prime Numbers  
Clifton Robinson, Bridgewater State University

Wellness Center - Kiosk 32 Side A  
Wireless Power Transfer for Internet-of-Things  
Jonathan Levy, Kennesaw State University

Wellness Center - Kiosk 32 Side B  
Emergency Nuclear Reactor Shutdown Effects on the Power Grid  
Ian Wright, University of Minnesota, Twin Cities

Wellness Center - Kiosk 32 Side C  
The Feasibility of Aquaponics in Urban Food Deserts  
Shaylyn Thompson, University of West Florida

Wellness Center - Kiosk 11 Side A  
Predator Kill Zones: Wolf Spiders Chemically Detect Where a Predator Has Killed a Conspecific and Responds Adaptively  
Eric Pressler, Susquehanna University

Wellness Center - Kiosk 11 Side B  
Optical Coherence Tomography System: Imaging and Viability of Breast Cancer Cells  
Clifton Robinson, Bridgewater State University

Wellness Center - Kiosk 11 Side C  
Emergency Nuclear Reactor Shutdown Effects on the Power Grid  
Lakota Griffis, Kennesaw State University

Wellness Center - Kiosk 8 Side A  
Land Fishes  
Richard DeSantiago, San Diego State University

Wellness Center - Kiosk 8 Side B  
Flow Visualization and Velocity Measurements in Low Viscosity Jets  
Maya Stine, Lafayette College

Wellness Center - Kiosk 8 Side C  
Emergency Nuclear Reactor Shutdown Effects on the Power Grid  
Ian Wright, University of Minnesota, Twin Cities

Wellness Center - Kiosk 23 Side A  
The Key To Cryptography: Attacking The Large Prime Numbers  
Clifton Robinson, Bridgewater State University

Wellness Center - Kiosk 23 Side B  
Optical Coherence Tomography System: Imaging and Viability of Breast Cancer Cells  
Clifton Robinson, Bridgewater State University

Wellness Center - Kiosk 23 Side C  
The Feasibility of Aquaponics in Urban Food Deserts  
Shaylyn Thompson, University of West Florida

Wellness Center - Kiosk 29 Side A  
DNA-Mediated Protein Immobilization  
Anindita Das, University of Central Oklahoma

Wellness Center - Kiosk 29 Side B  
Disodium Bicarbonate in the Treatment of Preterm Birth  
Aubrey Passley, Utah State University

Wellness Center - Kiosk 29 Side C  
DNA-Mediated Protein Immobilization  
Anindita Das, University of Central Oklahoma

Wellness Center - Kiosk 3 Side A  
The Key To Cryptography: Attacking The Large Prime Numbers  
Clifton Robinson, Bridgewater State University

Wellness Center - Kiosk 3 Side B  
Emergency Nuclear Reactor Shutdown Effects on the Power Grid  
Lakota Griffis, Kennesaw State University

Wellness Center - Kiosk 3 Side C  
The Feasibility of Aquaponics in Urban Food Deserts  
Shaylyn Thompson, University of West Florida

Wellness Center - Kiosk 41 Side A  
The Key To Cryptography: Attacking The Large Prime Numbers  
Clifton Robinson, Bridgewater State University

Wellness Center - Kiosk 41 Side B  
Emergency Nuclear Reactor Shutdown Effects on the Power Grid  
Lakota Griffis, Kennesaw State University

Wellness Center - Kiosk 41 Side C  
The Feasibility of Aquaponics in Urban Food Deserts  
Shaylyn Thompson, University of West Florida

Wellness Center - Kiosk 23 Side A  
The Key To Cryptography: Attacking The Large Prime Numbers  
Clifton Robinson, Bridgewater State University

Wellness Center - Kiosk 23 Side B  
Emergency Nuclear Reactor Shutdown Effects on the Power Grid  
Lakota Griffis, Kennesaw State University

Wellness Center - Kiosk 23 Side C  
The Feasibility of Aquaponics in Urban Food Deserts  
Shaylyn Thompson, University of West Florida

Wellness Center - Kiosk 3 Side A  
The Key To Cryptography: Attacking The Large Prime Numbers  
Clifton Robinson, Bridgewater State University

Wellness Center - Kiosk 3 Side B  
Emergency Nuclear Reactor Shutdown Effects on the Power Grid  
Lakota Griffis, Kennesaw State University

Wellness Center - Kiosk 3 Side C  
The Feasibility of Aquaponics in Urban Food Deserts  
Shaylyn Thompson, University of West Florida
STUDENT POSTER SESSION 8 - FRI 2:45PM-3:45PM

Wellness Center - Kiosk 51 Side C
Spatial Distribution of Crayfish on Sapelo Island, GA
Melissa Creviston, Georgia College and State University

Wellness Center - Kiosk 33 Side A
Investigating the Acute Effects of Social Smoking on Vital Signs in Young Adults
Matthew Bjork, Hamline University

Wellness Center - Kiosk 33 Side B
Relationship Between Alcohol Consumption & Fluid Intelligence
Lamuel Bean, Miami University

Wellness Center - Kiosk 33 Side C
Hepatitis B Virus Contact Testing in Lusaka, Zambia: a Mixed Methods Analysis
Sarah Franklin, University of Alabama at Birmingham

Wellness Center - Kiosk 56 Side A
Cold War in the Classroom: Effects of the Cold War on Public Education Curriculum
Amanda Pineo, Bridgewater State University

Wellness Center - Kiosk 56 Side B
Lipan Apache: Sovereignty Through Mobility
Rebecca Yacyszyn, Rose State College

Wellness Center - Kiosk 60 Side A
An Analysis of the Use of the Word Feminism in Major US Newspapers During the Women’s Liberation Movement in America
Emma Lawson, Westminster College

Wellness Center - Kiosk 60 Side B
From Barbarry to Pastime: Football Reform in the Progressive Era
Bailey McKay, Southwestern Oklahoma State University

Wellness Center - Kiosk 7 Side B
Two and a Half Minutes to Midnight: A New Nuclear Arms Race on the Horizon
Blake Butschek, Lone Star College System The Honors College

Wellness Center - Kiosk 7 Side C
Smoke and Mirrors: Industrial Pollution, Public Ignorance, and Scientific Literacy
Anthony D’Souza, Lone Star College System The Honors College

STUDENT POSTER SESSION 8 - FRI 2:45PM-3:45PM

Wellness Center - Kiosk 30 Side B
Relationships Among Resting Metabolic Rate, Fat Free Mass, and Bone Density
Kiersten Bredeson, Gustavus Adolphus College

Wellness Center - Kiosk 45 Side A
XROMM Analysis of Axial Skeletal Kinematics During Terrestrial Locomotion in the Savannah Monitor, Varanus Exanthematicus
Samuel Hasch, University of Utah

Wellness Center - Kiosk 45 Side B
Weight Perception, Body Composition, and Dietary Practices in College Age Students
Meagan Richardson, Elon University

Wellness Center - Kiosk 45 Side C
The Use of Exercise to Delay Symptoms of Parkinson’s Disease and Raise Individual Quality of Life
Mackenzie McKnight, Capital University

Wellness Center - Kiosk 4 Side C
Intentional Walk Rule Change Aftermath
Collin Kannenberg, University of Wisconsin - Whitewater

Wellness Center - Kiosk 36 Side A
Female Educators in Mathematics
Julia Messner, University of Central Oklahoma

Wellness Center - Kiosk 36 Side B
The Effects of Surface Texture on a Variety of Balance Assessments
Lydia Clement, Georgia College and State University

Wellness Center - Kiosk 30 Side A
C1q Expression During Sepsis
Sidney Duquette, University of Rochester
STUDENT POSTER SESSION 8 - FRI 2:45PM-3:45PM

Wellness Center - Kiosk 35 Side B
Isolation and Whole-Genome Sequencing of Environmental and Agricultural Campylobacter
Dana Franklin, Fisk University

Wellness Center - Kiosk 35 Side C
NK Cell Cytokine Production and Phosphorylation in Lymphangioleiomyomatosis
Morgan Terry, University of Alabama at Birmingham

Wellness Center - Kiosk 26 Side C
Intensity Matters: Perineuronal Nets Remodeling in Naloxone-precipitated Morphine Withdrawal on Female Adolescent Rats
Ashley Brown, Tulsa Community College

Wellness Center - Kiosk 55 Side A
Assessing the Role of PERK in Traumatic Brain Injury
Emaad Chishmi, University of Kentucky

Wellness Center - Kiosk 55 Side B
Comparative Analysis of the Sensitivity and Specificity of Ser(129)-?synuclein Monoclonal Antibodies
Sidhanth Chandra, University of Alabama at Birmingham

Wellness Center - Kiosk 58 Side A
Increase in Hippocampal Microglia After Non-dependent Ethanol Binge
Eva Greengrove, High Point University

Wellness Center - Kiosk 58 Side B
Exploring the Effect of PI-88 on IFN-? Induced Pathological Quiescence in OPCs
Beverly DiCorso, University at Buffalo, State University of New York

Wellness Center - Kiosk 50 Side A
The Good Life
Charlotte Taton, Cameron University

Wellness Center - Kiosk 50 Side B
Examining the Relationship Between Undergraduate Nursing Students’ Stigma Perceptions and Their Motivation to Provide Care to Patients with At-Risk Opioid Use.
Carolyn MacFarland, University of Pittsburgh

Wellness Center - Kiosk 61 Side A
Primary Factors Within a Failed State That Enable Terrorist Attacks
Travis Eswar, Susquehanna University

Wellness Center - Kiosk 59 Side B
State Criminal Justice Policy: Developing Indicators of Punitiveness and Rehabilitation Efforts
Demitra Kourtidis, Eastern Connecticut State University

Wellness Center - Kiosk 2 Side B
Academic Self-handicapping
Philip Marino, Adelphi University

Wellness Center - Kiosk 13 Side A
Effect of Threatening Experiences During Early Childhood on Threat Response
Muhan (Maureen) Xu, University of North Carolina, Chapel Hill

Wellness Center - Kiosk 13 Side B
Does Locus of Control Influence the Effectiveness of Guided vs. Self-directed Meditation?
Mikayla Strasser, North Central College

Wellness Center - Kiosk 53 Side A
Women’s Place in the Political World
Charlotte Taton, Cameron University

Wellness Center - Kiosk 2 Side A
Motivation of Physiological Responses and Social Stress: the Effects of Compassion Meditation During Stress Paradigms in Virtual Reality
Karianne Setavan Wong, University of Rochester

Wellness Center - Kiosk 2 Side C
Assessing the Role of TMD12 in Ion Translocation of the Na/Bicarbonate Cotransporter, NBC1
Travis Eiswerth, Susquehanna University

Wellness Center - Kiosk 53 Side B
Comparing Ratios Of Depression Between Female to Male MCI Patients and the General Population
Abbie Levinson, Bridgewater State University

Wellness Center - Kiosk 13 Side C
A Growing Epidemic of Anti-Vaccinations
Women’s Place in the Political World
Charlotte Taton, Cameron University

Wellness Center - Kiosk 12 Side A
Coronal Strial PIB Binding with Age in Down Syndrome Subjects Across the Lifespan
Jourdan Owens, University of Kentucky

Wellness Center - Kiosk 12 Side B
Great, Green, Glowing Worms: The Insulin/IGF-1 Signaling Pathway Regulates C. Elegans Feeding Behavior
Nicole Gousy, Bay Path University

Wellness Center - Kiosk 12 Side C
Adolescent Chronic Escalating Morphine Effects in Perineuronal Nets in the Orbital Frontal Cortex
Roxana Velasquez, Southern Nazarene University

Wellness Center - Kiosk 26 Side A
Regulation of Physiological Responses and Social Stress: the Effects of Compassion Meditation during Stress Paradigms in Virtual Reality
Karianne Setavan Wong, University of Rochester

Wellness Center - Kiosk 26 Side B
Modulation of Fear Memory Extinction by Prelimbic SK Channels
Ronithe Senatus, Florida Atlantic University

Wellness Center - Kiosk 26 Side C
Examining Autoreceptor Function in the Nucleus Accumbens
Nick Paige, University of Memphis

Wellness Center - Kiosk 58 Side B
The Good Life
Corina Cleveland, Wittenberg University

Wellness Center - Kiosk 50 Side A
The Good Life
Corina Cleveland, Wittenberg University

Wellness Center - Kiosk 1 Side B
Assessing the Role of TMD12 in Ion Translocation of the Na/Bicarbonate Cotransporter, NBC1
Kush Patel, University of Alabama at Birmingham

Wellness Center - Kiosk 13 Side B
Comparing Ratios Of Depression Between Female to Male MCI Patients and the General Population
Abbie Levinson, Bridgewater State University

Wellness Center - Kiosk 13 Side C
Comparing Ratios Of Depression Between Female to Male MCI Patients and the General Population
Abbie Levinson, Bridgewater State University

Wellness Center - Kiosk 13 Side A
Effect of Threatening Experiences During Early Childhood on Threat Response
Muhan (Maureen) Xu, University of North Carolina, Chapel Hill

Wellness Center - Kiosk 13 Side B
Does Locus of Control Influence the Effectiveness of Guided vs. Self-directed Meditation?
Mikayla Strasser, North Central College

Wellness Center - Kiosk 53 Side A
Women’s Place in the Political World
Charlotte Taton, Cameron University

PHYSIOLOGY

Wellness Center - Kiosk 1 Side B
Assessing the Role of TMD12 in Ion Translocation of the Na/Bicarbonate Cotransporter, NBC1
Kush Patel, University of Alabama at Birmingham

Wellness Center - Kiosk 13 Side B
Does Locus of Control Influence the Effectiveness of Guided vs. Self-directed Meditation?
Mikayla Strasser, North Central College

Wellness Center - Kiosk 53 Side A
Women’s Place in the Political World
Charlotte Taton, Cameron University

POLITICAL SCIENCE

Wellness Center - Kiosk 53 Side B
Women’s Place in the Political World
Charlotte Taton, Cameron University
Wellness Center - Kiosk 19 Side A
Flexibly And/Or Inflexibly Embracing Life: Identifying Fundamental Approaches To Life Across A Spectrum Of Flexible And Rigid Behaviors
Oliver Stabbe, University of Rochester

Wellness Center - Kiosk 19 Side B
How Optimism Effects Stress Response and Ability to Multitask
Nathan Edwards Edwards, Eastern Connecticut State University

Wellness Center - Kiosk 22 Side A
Foolish or Heroic?: The Influence of Perpetrator Status on Perceptions of Those Who Confront Prejudice
Jessica Carter, Indiana University

Wellness Center - Kiosk 22 Side B
Lights, Camera, Perception: The Effect of Editing Patterns on Ability to Process Scene Transitions
Grant Brighter, Ithaca College

Wellness Center - Kiosk 22 Side C
Phonological and Semantic Features in Young Children’s Foreign Word Learning
Rebekah Charles, University of Minnesota, Twin Cities

Wellness Center - Kiosk 31 Side A
Alcohol Consumption and Generative Development in Middle Adulthood
Ananda Easley, Luther College

Wellness Center - Kiosk 31 Side B
Attitudes in Sports: Conflicting Values Affecting Decisions to Participate
Abbie Hurton, Bethel College

Wellness Center - Kiosk 31 Side C
Damned, But Doing Okay? An Initial Examination of Social Support and Life Satisfaction in American Atheists
Matthew Stirrane, University of Kentucky

Wellness Center - Kiosk 44 Side A
Phonological Processing and Reaction Time in Children with SLI: A Systematic Review and Meta-Analysis
Kaelin Beattie, University of Wisconsin - Oshkosh

Wellness Center - Kiosk 44 Side B
Relationship Between Facebook Use and Mental/Physical Health Outcomes with Attachment Style as a Moderator
Kimberly Blair, Adelphi University

Wellness Center - Kiosk 44 Side C
Spatial Reorientation Using Audition: Do Humans Encode Ambiguous Stimuli?
Josie Clark, Eastern Illinois University

Wellness Center - Kiosk 47 Side A
Using DRA to Decrease Problem Behavior and Increase Academic Behavior in a Child with Autism Spectrum Disorder
Michelle Kondrat, University of Wisconsin - Milwaukee

Wellness Center - Kiosk 47 Side B
The Role of Actin Polymerization in Dendritic Spine Morphology in Female Mice
Jayson Schalk, University of Wisconsin - Milwaukee

Wellness Center - Kiosk 47 Side C
Socioeconomic Context Predicts White Matter Integrity in Healthy Older Adults
Christina Pinheiro, University of Kentucky

Wellness Center - Kiosk 48 Side A
Implicit Caricatures of Native Americans
Ashrin Dunham, University of Central Oklahoma

Wellness Center - Kiosk 48 Side B
Learning Without Awareness
Yohan Krumov, Eastern Connecticut State University

Wellness Center - Kiosk 48 Side C
The Influence of Social Medias on Self-Esteem in Relation to Personality
Rebecca Layton, Georgia College and State University

Wellness Center - Kiosk 54 Side A
The Relation of Sex and Grade Classification to Ethical Decision-Making Skills in Undergraduate Students
Destani Malicoat, University of Science and Arts of Oklahoma

Wellness Center - Kiosk 54 Side B
Socioeconomic Context Predicts White Matter Demyelination Dendritic Spine Morphology in Female Mice
Jennifer Davis, University of Central Oklahoma

Wellness Center - Kiosk 54 Side C
Costa Rican Ecotourism: Economic Growth at the Cost of Sustainable Development and Community Longevity
Kaitlin Beattie, University of Wisconsin - Oshkosh

Wellness Center - Kiosk 57 Side A
The Role of Bike Shares in a Sustainable Urban Transport System
Andrew Velasquez, University of California - Merced

Wellness Center - Kiosk 57 Side B
Analysis of Ferrous Particles in Hydraulic Fluids
Matthew Ogura, John Brown University

Wellness Center - Kiosk 57 Side C
Who GAMBLEs More - Monkeys or Humans
Jaira Bramblett, University of Central Oklahoma

SOFTWARE ENGINEERING
Wellness Center - Kiosk 24 Side A
Autonomous Topology Detection and Monitoring for Microservices Architecture
Bhavyansh Mishra, University of West Florida

Wellness Center - Kiosk 24 Side B
Data Mining Classification Using Natural Language Processing Techniques to Improve Business Decisions
Jessica Camilien, Kennesaw State University

Wellness Center - Kiosk 24 Side C
Automating Avionics Tests for the Space Launch System
Thomas Crews, Southwestern Oklahoma State University

SPORT MANAGEMENT
Wellness Center - Kiosk 53 Side B
Is Heisman Trophy Voting Influenced by the Media? a Statistical Analysis of Heisman Winners Since 2004
Jessica Sanders, University of Central Oklahoma

SUSTAINABILITY
Wellness Center - Kiosk 10 Side A
The Role of Bike Shares in a Sustainable Urban Transport System
Maria Yaselle Cruz, University of North Carolina, Charlotte

Wellness Center - Kiosk 10 Side B
Analysis of Ferrous Particles in Hydraulic Fluids
Andrew Velasquez, University of California - Merced

Wellness Center - Kiosk 10 Side C
Costa Rican Ecotourism: Economic Growth at the Cost of Sustainable Development and Community Longevity
Clare Milburn, Appalachian State University
STUDENT POSTER SESSION 9 - FRI 4:00PM-5:00PM

BIOCHEMISTRY

Wellness Center - Kiosk 8 Side A
Rational Design and Substrate Specificity Study of Pyruvatetransferase CdpNPT
Miranda Schene, University of Oklahoma Norman Campus

Wellness Center - Kiosk 8 Side B
Synergistic Effects of Modified Polymers and Beta-lactam Antibiotics on MRSA
Madeleine Hartney, University of Oklahoma Norman Campus

Wellness Center - Kiosk 8 Side C
The Expression of Cancer Associated Protein - Cortactin in Chinese Hamster Ovarian Cells
Barbara Walenkiewicz, College of St Scholastica

Wellness Center - Kiosk 42 Side A
Kinetic Characterization of Cellular Entry, Trafficking and Cargo Release by a Novel TAT-derived Cell-penetrating Peptide
Hannah Moorman, Kennesaw State University

Wellness Center - Kiosk 42 Side B
Redefining Htlv and Host Protein-promoter Interactions in Magnetic Promoter Pull-down Assays
Conner Anderson, East Central University

Wellness Center - Kiosk 42 Side C
Virtual Screening for Novel Inhibitors of Plasmodium Vivax 6-phosphogluconate Dehydrogenase
Geovanny Zarceno, University of Texas at Austin

BIOLOGICAL ENGINEERING

Wellness Center - Kiosk 57 Side A
Biocompatibility of Hydroxyapatite and Cobalt-Chrome Alloys
Mehedi Hasan, Minnesota State University, Mankato

Wellness Center - Kiosk 57 Side B
Examining Surgical and Device Interventions for Optimizing Prosthesis-Limb Interface and Ambulatory Performance of Transfemoral Amputees
Justine Borchard, University of Texas at Dallas

Wellness Center - Kiosk 57 Side C
Using Acid Vapor Hydrolysis to Inactivate Glutamate Oxidase Enzyme on Microelectrode Arrays
Kayla Kuhlfield, University of Kentucky

BIOLOGY

Wellness Center - Kiosk 13 Side A
Does CPP Delivered Catalase Have Measurable Physiological Effects?
Beryl Khakina, Kennesaw State University

Wellness Center - Kiosk 13 Side B
Drosophila melanogaster as a Model for Stimulant Use Disorder
Shaunaci Stevens, NC State University

Wellness Center - Kiosk 13 Side C
Binding Competition for a Developmentally Important Receptor in the Synapse During Neural Development: Is Folic Acid Interfering with Glutamic Acid?
Amanda Koenig, University of Northern Iowa

Wellness Center - Kiosk 14 Side A
Commercial Arbucuru Mycorrhizal Fungi Do Not Enhance the Growth of Native Tall Grass

Wellness Center - Kiosk 14 Side B
Commercial Arbucuru Mycorrhizal Fungi Do Not Enhance the Growth of Native Tall Grass

STUDENT POSTER SESSION 9 - FRI 4:00PM-5:00PM

STUDENT POSTER SESSION 9 - FRI 4:00PM-5:00PM

BIOCHEMISTRY

Wellness Center - Kiosk 14 Side C
Environmental Detection of Amphibian Pathogens Using Quantitative PCR
Ashley Wojciechowski, North Central College

Wellness Center - Kiosk 14 Side D
Specific Histidines in LBP Play a Role in PH Sensing
Emily Oneyekwere, Kennesaw State University

Wellness Center - Kiosk 46 Side A
Evaluation of Microbacterium Phage Biology in Oklahoma Soils
Alma Manquez, University of Central Oklahoma

Wellness Center - Kiosk 46 Side B
First Chromosome Number Determinations in Utricularia floridana, the Florida Yellow Bladderwort, a Carnivorous Aquatic Plant Endemic to the Southeastern United States
Zachary Izen, Georgia College and State University

Wellness Center - Kiosk 46 Side C
Loss of Beta-Catenin Protects Mice from 3,5-diethoxycarbonyl-1,4-dihydrocollidine-induced Porphyria
Harvinder Saggi, University of Pittsburgh

CELL & MOLECULAR BIOLOGY

Wellness Center - Kiosk 10 Side A
A Quest to Reveal Roles of the C-Terminus of Pol2 Using CRISPR-Cas9 Technique
Sarah Woller, Northeastern State University

Wellness Center - Kiosk 10 Side B
Molecular Characterization of Two High Light-Sensitive Mutants of Chlamydomonas reinhardtii, Defective in a Novel Uncharacterized Gene, LSR1.
Kevin Nguyen, University of West Georgia

Wellness Center - Kiosk 16 Side A
ABT263 (Navitoclax) and the IPF-Treatment Drugs for a Healthier Aging
Hemant Srivastava, University of Alabama at Birmingham

Wellness Center - Kiosk 30 Side A
Specific Histidines in LBP Play a Role in PH Sensing
Emily Oneyekwere, Kennesaw State University

Wellness Center - Kiosk 30 Side B
The Effect of Epigallocatechin (ECGC) on Adipogenesis in 3T3-L1 Cells
Sara Ramezzana, Susquehanna University

Wellness Center - Kiosk 30 Side C
Wildlife Use of Stock Tanks in the Nebraska Sandhills
Andrew Riesenberg, University of Nebraska at Kearney

Wellness Center - Kiosk 31 Side A
A Quest to Reveal Roles of the C-Terminus of Pol2 Using CRISPR-Cas9 Technique
Sarah Woller, Northeastern State University

Wellness Center - Kiosk 31 Side B
Environmental Detection of Amphibian Pathogens Using Quantitative PCR
Ashley Wojciechowski, North Central College

Wellness Center - Kiosk 31 Side C
Biocompatibility of Hydroxyapatite and Cobalt-Chrome Alloys
Mehedi Hasan, Minnesota State University, Mankato

Wellness Center - Kiosk 31 Side D
Environmental Detection of Amphibian Pathogens Using Quantitative PCR
Ashley Wojciechowski, North Central College

Wellness Center - Kiosk 31 Side E
Specific Histidines in LBP Play a Role in PH Sensing
Emily Oneyekwere, Kennesaw State University

Wellness Center - Kiosk 31 Side F
Loss of Beta-Catenin Protects Mice from 3,5-diethoxycarbonyl-1,4-dihydrocollidine-induced Porphyria
Harvinder Saggi, University of Pittsburgh

Wellness Center - Kiosk 31 Side G
A Quest to Reveal Roles of the C-Terminus of Pol2 Using CRISPR-Cas9 Technique
Sarah Woller, Northeastern State University

Wellness Center - Kiosk 31 Side H
Molecular Characterization of Two High Light-Sensitive Mutants of Chlamydomonas reinhardtii, Defective in a Novel Uncharacterized Gene, LSR1.
Kevin Nguyen, University of West Georgia

Wellness Center - Kiosk 46 Side A
Evaluation of Microbacterium Phage Biology in Oklahoma Soils
Alma Manquez, University of Central Oklahoma

Wellness Center - Kiosk 46 Side B
First Chromosome Number Determinations in Utricularia floridana, the Florida Yellow Bladderwort, a Carnivorous Aquatic Plant Endemic to the Southeastern United States
Zachary Izen, Georgia College and State University

Wellness Center - Kiosk 46 Side C
Loss of Beta-Catenin Protects Mice from 3,5-diethoxycarbonyl-1,4-dihydrocollidine-induced Porphyria
Harvinder Saggi, University of Pittsburgh

Wellness Center - Kiosk 46 Side D
A Quest to Reveal Roles of the C-Terminus of Pol2 Using CRISPR-Cas9 Technique
Sarah Woller, Northeastern State University

Wellness Center - Kiosk 46 Side E
Molecular Characterization of Two High Light-Sensitive Mutants of Chlamydomonas reinhardtii, Defective in a Novel Uncharacterized Gene, LSR1.
Kevin Nguyen, University of West Georgia

Wellness Center - Kiosk 46 Side F
Evaluation of Microbacterium Phage Biology in Oklahoma Soils
Alma Manquez, University of Central Oklahoma

Wellness Center - Kiosk 46 Side G
First Chromosome Number Determinations in Utricularia floridana, the Florida Yellow Bladderwort, a Carnivorous Aquatic Plant Endemic to the Southeastern United States
Zachary Izen, Georgia College and State University

Wellness Center - Kiosk 46 Side H
Molecular Characterization of Two High Light-Sensitive Mutants of Chlamydomonas reinhardtii, Defective in a Novel Uncharacterized Gene, LSR1.
Kevin Nguyen, University of West Georgia

Wellness Center - Kiosk 46 Side I
Evaluation of Microbacterium Phage Biology in Oklahoma Soils
Alma Manquez, University of Central Oklahoma

Wellness Center - Kiosk 46 Side J
First Chromosome Number Determinations in Utricularia floridana, the Florida Yellow Bladderwort, a Carnivorous Aquatic Plant Endemic to the Southeastern United States
Zachary Izen, Georgia College and State University

Wellness Center - Kiosk 46 Side K
Molecular Characterization of Two High Light-Sensitive Mutants of Chlamydomonas reinhardtii, Defective in a Novel Uncharacterized Gene, LSR1.
Kevin Nguyen, University of West Georgia
Wellness Center - Kiosk 16 Side B
Engineering of Functional Replication Protein a Homologs in Methanosarcina acetivorans
Fatima Eldes, University of Illinois at Urbana Cham-paign

Wellness Center - Kiosk 19 Side A
Synthesis, Characterization, and DNA Binding of a Novel Rhodium Complex
Lauren Caronia, Moravian College

Wellness Center - Kiosk 19 Side B
Using Multi-step Synthesis for the Production of Hydrogels with Adhesive Properties
Martin Alcantar, Georgia College and State University

Wellness Center - Kiosk 19 Side C
Wastewater Contaminant Adsorption on Magnetic Composites
Abby Harders, Bethel College

Wellness Center - Kiosk 19 Side B
Role of Alpha-Tocopherol on Polyunsaturated Lipids: Water Permeability
Shea Foley, Iona College

Wellness Center - Kiosk 21 Side B
Tensiometric Studies of Cell Membranes and Interaction with Drugs
Alyssa Marie Gayapa, Iona College

Wellness Center - Kiosk 21 Side C
Analytical Detection of Nanoliter Droplets Using Raman Microspectroscopy
Joseph Giancapi, Iona College

Wellness Center - Kiosk 52 Side B
Chemoenzymatic Synthesis of Michelislide

Wellness Center - Kiosk 52 Side A
Analoge for the Treatment of Acute Myeloid Leukemia
Yashika Sharma, University of Rochester

Wellness Center - Kiosk 52 Side C
Extraction of Hydrophilic Cosmetic Components Using Hydrogels and Surface Enhanced Raman Spectroscopy (SERS) Detection
Rachel Olson, Hamline University

Wellness Center - Kiosk 54 Side A
Introducing Microfluidics to Undergraduate Students Using 3D Printing
Matthew Vangunten, Millikin University

Wellness Center - Kiosk 54 Side B
Moringa oleifera Phytochemical Composition and the Influence of Environmental Growing Conditions
Tanner Sciara, Appalachian State University

Wellness Center - Kiosk 54 Side C
Stereoselective Synthesis of the Selective Serotonin 5-HT2A Agonist (2S,6S)-2-(4-Bromo-2,5-dimethoxybenzyl)-6-(2-methoxyphenyl)piperidine
Shelby Stotchnyer, Salisbury University

Wellness Center - Kiosk 6 Side A
An Exploration of Novel Applications of Strong Timing in Programming Languages
Carrick McClain, Kennesaw State University

Wellness Center - Kiosk 6 Side B
Design of a Stand-Alone Tool for P-refinement of 3D Finite Element Meshes with Boundary Conditions
Daniel Gross, University of Illinois at Urbana Cham-paign

Wellness Center - Kiosk 18 Side A
Calibration Method for Spinning Fringe Projection
Jace Holton, Iowa State University

Wellness Center - Kiosk 18 Side B
Encouraging High Performance Computing Education in Oklahoma High Schools
Madison Matli, Southwestern Oklahoma State University

Wellness Center - Kiosk 18 Side C
Pyramid Fighter
Callie Driver, University of Central Oklahoma

Wellness Center - Kiosk 27 Side A
Counting Magic Venn Diagrams
Phillip Morris, University of West Georgia

Wellness Center - Kiosk 27 Side B
Visualizing Website Fingerprinting Data
Lily Rose Kim, University of Central Oklahoma

Wellness Center - Kiosk 27 Side C
Segmentation of Heart Ventricles Using Skeletal Representations
Hasana Chaudry, Susquehanna University

ECOLOGY & ORGANISMS

Wellness Center - Kiosk 5 Side A
Influence of Herbivory on Induced Defenses: Phaseolus lunatus and Prunus serotina
Kaitlyn Masse, Susquehanna University

Wellness Center - Kiosk 5 Side B
Death by Dating: Behavioral Trade-off Between Mate Search and Death-feigning Based on Food Availability
Evan Blanford, University of Kentucky

EDUCATION

Wellness Center - Kiosk 11 Side A
The Pursuit of Authentic Imagery Between Cultures: A Student Art Exchange
Hannah Westhoven, Capital University

Wellness Center - Kiosk 11 Side B
Encouraging RE Attendance in Low Income, Low Education Populations
Bethany Fitzgerald, University of Central Oklahoma

ECONOMICS

Wellness Center - Kiosk 23 Side A
The Roles of SDRs in the International Monetary System: Past, Present, and Future
Xun Ye, Lafayette College

Wellness Center - Kiosk 23 Side B
Water Quality’s Impact on the Red Cedar Watershed Economy
Ryeligh Prochnow, University of Wisconsin - La Crosse

Wellness Center - Kiosk 53 Side A
Does the Market for Player Salaries Recognize and Reward Intangible Characteristics of Ath-letes?: A Case of the NBA
Ali Hussen, Eastern Washington University

Wellness Center - Kiosk 53 Side B
Bank Consolidation and Its Effects on Bank Risk-taking: a Case Study on the Spokane and Spokane Valley Metropolitan Area
Shane Carrigan, Eastern Washington University

Wellness Center - Kiosk 53 Side C
Crash Cost Analysis of Truck Drivers Diagnosed With Obstructive Sleep Apnea
Michael Cagle, University of Minnesota - Morris

UNIVERSITY OF CENTRAL OKLAHOMA

STUDENT POSTER SESSION 9 - FRI 4:00PM-5:00PM

STUDENT POSTER SESSION 9 - FRI 4:00PM-5:00PM
Wellness Center - Kiosk 11 Side C
One Child’s Experience with Writer’s Workshop
Hannah Warmoth, University of Central Oklahoma

Wellness Center - Kiosk 25 Side C
Teach for America (TFA) vs. Certified Teaching
Ke’waun Smith, University of Wisconsin - Whitewater

Wellness Center - Kiosk 35 Side A
Investing Roles and Boundaries Within Blended Families and Resources to Help
Jessica Askins, University of Central Oklahoma

Wellness Center - Kiosk 35 Side B
Student-Teacher Relationships: Do Positive Relationships Impact Career Choice?
Haley Greenwell, Milligan College

Wellness Center - Kiosk 35 Side C
Inquiry on the Accuracy of Grades on Representing Acquired Knowledge
Sourav Debnath, Kennesaw State University

Wellness Center - Kiosk 41 Side A
Elementary School Outcomes Associated with Faster English Language Acquisition for Dual Language Learners
Nadine Rozell, George Mason University

Wellness Center - Kiosk 41 Side C
The Effect of Reading Digitally Versus in Print on Emergent Literacy in Elementary Schools
Christina Bennett, Virginia Commonwealth University

ELECTRICAL ENGINEERING
Wellness Center - Kiosk 3 Side C
Load Following of a Nuclear Power Plant
Ghalib Shutayfi, Western Carolina University

Wellness Center - Kiosk 7 Side A
Electromagnetic Propulsion for Water Vessels Utilizing Alternating Current
Jourdan Holubasch, Eastern Washington University

Wellness Center - Kiosk 7 Side B
Noise Monitoring Using a Wireless Sensor Network
Taylor Rink, Hope College

Wellness Center - Kiosk 7 Side C
Algorithm Development for Swarm Robotics in Search and Rescue
Matthew Hill, Western Carolina University

Wellness Center - Kiosk 17 Side A
Designing and Optimizing Silicon Waveguides for Integration with Non-linear Optics
Peter Shares, United States Military Academy at West Point

ENGINEERING/ENGINEERING TECHNOLOGY
Wellness Center - Kiosk 17 Side B
Heat Capacity of Pineapple Puree Using Generic Thermos
Franklin Woods, Kennesaw State University

Wellness Center - Kiosk 17 Side C
Cold Compression Therapy Wrap
Moaid Almosalim, University of Central Oklahoma

Wellness Center - Kiosk 20 Side A
Development of a Fully Functional Wireless Radiation Detector
MaKayla Jacobs, Kennesaw State University

Wellness Center - Kiosk 20 Side B
Learning While Flying – A Simulation Based

STUDENT POSTER SESSION 9 - FRI 4:00PM-5:00PM

Case Study
Alain Santos, Kennesaw State University

Wellness Center - Kiosk 20 Side C
Structural Analysis Of The Maya Temple Of The Seven Dolls In Dzibilchaltun, Mexico
Edna Turo Garza, University of Rochester

ENVIRONMENTAL STUDIES & SCIENCES
Wellness Center - Kiosk 32 Side A
Evaluating the Relationships Between Weather and Nanotagged Terns Using R-Shiny
Tyler Sym, Colorado College

Wellness Center - Kiosk 32 Side B
Using Systems Thinking in Agriculture to Integrate Concepts
Lisa West, Texas A & M University - Kingsville

Wellness Center - Kiosk 32 Side C
Will There Be Enough Water to Sustain Development?
Tara Brooks, Eastern Connecticut State University

HEALTH SCIENCES & PUBLIC HEALTH
Wellness Center - Kiosk 26 Side A
Current and Potential Uses of Green Roofs on Hospitals
Arjun Viray, Portland State University Honors College

Wellness Center - Kiosk 26 Side B
Evaluating Readiness of Clinical and Health Administration Students Towards Interprofessional Education
Justin Boldt, Minnesota State University, Moorhead

Wellness Center - Kiosk 26 Side C
Formulation of a Self-Emulsifying Drug Delivery System of Fenofibrate
Courtney McCorkle, High Point University

Wellness Center - Kiosk 34 Side A
Hurricanes, Climate Change, and Public Health Connections In NYC
Aaron Jackson, Borough of Manhattan Community College

Wellness Center - Kiosk 34 Side B
Effects of Resilience and Social Capital on Coping Strategy Choice
Shu Kawase, Musashino University

Wellness Center - Kiosk 34 Side C
Characterization of the 1918 Influenza Pandemic in Missouri and Arkansas
Adam Davidson, University of Central Arkansas

Wellness Center - Kiosk 49 Side A
Storm Water Disposal
Aaron Cleveland, Eastern Washington University

Wellness Center - Kiosk 49 Side B
How to Optimize Your Public Transportation System
Devon Westbrook, University of Central Oklahoma

Wellness Center - Kiosk 49 Side C
Influence of ‘Small’ Elevation Changes on Coastal Systems
Nathan Crowdus, Western Kentucky University

Wellness Center - Kiosk 49 Side D
Geologic and Anthropogenic History of Spokane Revealed by Subsurface Projections for
Adams Davidson, University of Central Arkansas
STUDENT POSTER SESSION 9 - FRI 4:00PM-5:00PM

Wellness Center - Kiosk 39 Side A
The Usefulness of the National Health Security Preparedness Index in Assessing Hurricane Preparedness: A Literature Review
Brooke Spellman, University of Kentucky

Wellness Center - Kiosk 39 Side B
What’s a Checkbook?! a Study on the Relationship Between UCO Student Financial Stress and Suicide Ideations
Kate Mohr, University of Central Oklahoma

Wellness Center - Kiosk 39 Side C
Sensing Anxiety?
Madison Morrison, Indiana State University

Wellness Center - Kiosk 40 Side A
Reactive Oxygen Species Production by Commonly Used Flavoring Agents in E-Cigarette Liquids
Melanie Prinz, University of Rochester

Wellness Center - Kiosk 40 Side B
Shifting the Health Education Paradigm: Moving the Focus from Individual Behavior to Social Determinants of Health
Lindsay Hukill, University of Central Oklahoma

KINESIOLOGY & EXERCISE SCIENCE
Wellness Center - Kiosk 22 Side A
Aquaponics: an Innovative Approach to Teaching Health
Katelyn Unvert, University of Nebraska at Kearney

Wellness Center - Kiosk 22 Side B
Pulse Wave Velocity in Youth with Visual Impairments
Lauren Bates, State University of New York-Brockport

Wellness Center - Kiosk 22 Side C
The Effects of Mental Imagery on Free Throw Accuracy
Matthew Mientkiewicz, Gustavus Adolphus College

Wellness Center - Kiosk 38 Side A
The Prioritization of Tasks During Dual-Task Tandem Gait Testing in Female Student Athletes
Caitlin Edwards, University of Wisconsin - Eau Claire

Wellness Center - Kiosk 38 Side B
The Relationship Between Rock Climbing and Total Body Strength and Endurance
Ashlee Cordero, Georgia College and State University

LAW & LEGAL STUDIES
Wellness Center - Kiosk 50 Side A
Is Climate Change Real: Evidence of Temperature Rise in the State of Oklahoma
Chase Henry, University of Oklahoma Norman Campus

Wellness Center - Kiosk 4 Side A
Optogenetic Control of the Electric Properties of a Cardiac Cell
Zahra Dhanarawala, Simmons College

Wellness Center - Kiosk 4 Side C
An Investigation of Newton’s Method in Hyperbolic Geometry
Sarah Dickey, Elmhurst College

Wellness Center - Kiosk 47 Side A
Development of the Ophthalmic System
Anne Cheng, University of Rochester

Wellness Center - Kiosk 47 Side B
Effects of PACAP Receptor Gene Polymorphism on Limbic-based Brain Functional Organization in Youth
Stephanie Morgan, Wayne State University

Wellness Center - Kiosk 51 Side A
Analyzing the Potentially of Zika Virus Infection in the Human Medulloblastoma
Clairice Pearce, University of Minnesota, Twin Cities

Wellness Center - Kiosk 51 Side B
Expression of Inflammatory Markers in Brain Tissue from Autism Spectrum Disorder
Brooke Beasley, East Tennessee State University

Wellness Center - Kiosk 51 Side C
Tissue from Autism Spectrum Disorder
Khulganaa Buyannemekh, Lafayette College

INTERNATIONAL STUDIES
Wellness Center - Kiosk 45 Side B
How Chinese Sociocultural Perspectives on Education Inform Students’ Educational Decisions
Caitlin Hedberg, University of Wisconsin - Eau Claire

Wellness Center - Kiosk 45 Side C
The Stigma of Disability: An Intercultural Analysis
Nora Ditto, Elmhurst College

NEUROSCIENCE
Wellness Center - Kiosk 47 Side A
Magnetic Resonance Thermometry as a Novel Way to Detect Neuroinflammation Post TBI
Altamish Daredia, University of Alabama at Birmingham

Wellness Center - Kiosk 47 Side B
Magnetic Resonance Thermometry as a Novel Way to Detect Neuroinflammation Post TBI
Altamish Daredia, University of Alabama at Birmingham

Wellness Center - Kiosk 51 Side A
Moral Triage: Admitting Social Ethics Into Nursing Practice
Nicole Fronk, Viterbo University

Wellness Center - Kiosk 51 Side B
Persons with Recently Diagnosed Alzheimer’s Disease: an Exploration Comparing Quality of Life Indicators Across Three Time Points
Stirling Adrian, Minnesota State University, Mankato

Wellness Center - Kiosk 51 Side C
Examining the Relationship Between Hydration Status and Perceived Wellness and Energy in Undergraduate College Students
Emem Udo, Gustavus Adolphus College

Wellness Center - Kiosk 56 Side A
Binge-like Ethanol Consumption
Isabella Grifasi, High Point University

Wellness Center - Kiosk 56 Side B
High Stress Medical Situations and Nurses
Gustavo Ulloa, University of West Florida

Wellness Center - Kiosk 56 Side C
High Stress Medical Situations and Nurses
Gustavo Ulloa, University of West Florida

STUDENT POSTER SESSION 9 - FRI 4:00PM-5:00PM
PHYSICS
Wellness Center - Kiosk 12 Side A
Investigation of Maximum Operating Voltage of a Van De Graaff Accelerator
Oshlok Hossain, Minnesota State University, Mankato

Wellness Center - Kiosk 12 Side B
An Analysis of the Relationship Between Size and Optical Properties of Aerosols
Kaleb Brookshire, Appalachian State University

Wellness Center - Kiosk 12 Side C
Determining and Identifying Stable and Habitable Climates of Exoplanet Gliese 581g
Macgregor Sullivan, Wheaton College

POLITICAL SCIENCE
Wellness Center - Kiosk 1 Side A
Labor Movements in International Relations
Phillip Bugajski, Loyola University of Chicago

Wellness Center - Kiosk 1 Side B
Linguistic Diversity and Democratic Outcomes
Jake Clor, Wayne State University

Wellness Center - Kiosk 5 Side A
The Dark Figure of Rape: An Analysis of the Reporting Decision for Rape and Sexual Assault
Amanda Edelen, University of Kentucky

Wellness Center - Kiosk 55 Side A
The Economic and Developmental Benefits of Strategic Decolonization in the Caribbean
Benjamin Foster, Susquehanna University

Wellness Center - Kiosk 55 Side C
Breastfeeding Rates Within Racial and Ethnic Disparities
Mirah Ghavami, Baylor University

Wellness Center - Kiosk 55 Side B
Framing Effects in a Competitive Environment: Black Lives Matter Versus President Trump
Samantha Adams, University of Tennessee at Chattanooga

Wellness Center - Kiosk 36 Side A
An Educationally Relevant Investigation of Spaced Practice
Brittney Hjelmeeland, Minnesota State University, Mankato

Wellness Center - Kiosk 36 Side B
Binge Drinking Impact on Verbal Memory Recall in Adolescents and Young Adults
MaryBeth Gnoth, University of Wisconsin - Milwaukee

Wellness Center - Kiosk 36 Side C
Five Factor Model Personality Traits, Antisocial Personality Disorder, and Facial Affect Recognition
Jaiden Butler, Oklahoma State University

Wellness Center - Kiosk 37 Side A
Perceived Income and Zip Code on Social Well-Being
Sonia Yanovsky, University of West Florida

Wellness Center - Kiosk 37 Side B
Psychological Influences That Affect College Student’s Reasoning for Binge Drinking at a Tailgate Event and Preventative Measures That Can Be Taken to Lessen Excessive Alcohol Consumption
Stephanie Isquierdo, Florida International University

Wellness Center - Kiosk 37 Side C
Social Context Influence on Emotional Language Comprehension Through Facial Muscle Activity
Erica Schaeffer, University of Wisconsin - Whitewater

Wellness Center - Kiosk 44 Side A
Inflammasome Subset Assembly and Nociceptive Sensitivity in Mice
Erin Riss, University of Alabama at Birmingham

Wellness Center - Kiosk 44 Side B
Perceived Stress in Marijuana-using Adolescents and Young Adults
Kristen Leer, University of Wisconsin - Milwaukee

Wellness Center - Kiosk 44 Side C
The Impact of Exercise Environment on the Relation Between Social Physique Anxiety and Weekly Exercise
James Crim, University of Minnesota, Twin Cities

Wellness Center - Kiosk 49 Side A
Thematic Analysis: Implications for a Behavioral Intervention Technology for Bipolar Disorder
Jamilah Silver, Northwestern University

Wellness Center - Kiosk 49 Side B
Religious Studies

Wellness Center - Kiosk 49 Side C
A Mobile Diagnostics Lab for Interdisciplinary Climate Research
Kaylinn Taggart, Iowa State University

Wellness Center - Kiosk 49 Side D
Bringing Solar Energy to a Sunny State
Megan Richard, University of Alabama at Birmingham

Wellness Center - Kiosk 9 Side A
Archaeometric Approaches to the Roman Near East
Gayatri Nandwani, University of Tennessee at Knoxville

Wellness Center - Kiosk 9 Side B
Archeometric Approaches to the Roman Near East
Gayatri Nandwani, University of Tennessee at Knoxville

Wellness Center - Kiosk 9 Side C
The Role of Religion in the Traditional Healing Practices of the Himba Ethnic Group of Namibia
Lydia Strawser, Penn State University

Wellness Center - Kiosk 9 Side D
Student Poster Session 9 - Political Science

Wellness Center - Kiosk 37 Side A
Student Poster Session 9 - Linguistic Diversity and Democratic Outcomes

Wellness Center - Kiosk 37 Side B
Student Poster Session 9 - Psychological Influences That Affect College Student’s Reasoning for Binge Drinking at a Tailgate Event and Preventative Measures That Can Be Taken to Lessen Excessive Alcohol Consumption

Wellness Center - Kiosk 37 Side C
Student Poster Session 9 - Social Context Influence on Emotional Language Comprehension Through Facial Muscle Activity

Wellness Center - Kiosk 44 Side A
Student Poster Session 9 - Inflammasome Subset Assembly and Nociceptive Sensitivity in Mice

Wellness Center - Kiosk 44 Side B
Student Poster Session 9 - Perceived Stress in Marijuana-using Adolescents and Young Adults

Wellness Center - Kiosk 44 Side C
Student Poster Session 9 - The Impact of Exercise Environment on the Relation Between Social Physique Anxiety and Weekly Exercise

Wellness Center - Kiosk 49 Side A
Student Poster Session 9 - Thematic Analysis: Implications for a Behavioral Intervention Technology for Bipolar Disorder

Wellness Center - Kiosk 49 Side B
Student Poster Session 9 - Religious Studies

Wellness Center - Kiosk 49 Side C
Student Poster Session 9 - A Mobile Diagnostics Lab for Interdisciplinary Climate Research

Wellness Center - Kiosk 49 Side D
Student Poster Session 9 - Bringing Solar Energy to a Sunny State

Wellness Center - Kiosk 9 Side A
Student Poster Session 9 - Archaeometric Approaches to the Roman Near East

Wellness Center - Kiosk 9 Side B
Student Poster Session 9 - Archeometric Approaches to the Roman Near East

Wellness Center - Kiosk 9 Side C
Student Poster Session 9 - The Role of Religion in the Traditional Healing Practices of the Himba Ethnic Group of Namibia

Wellness Center - Kiosk 9 Side D
Student Poster Session 9 - Bringing Solar Energy to a Sunny State

Wellness Center - Kiosk 37 Side A
Student Poster Session 9 - Student Poster Session 9 - Political Science

Wellness Center - Kiosk 37 Side B
Student Poster Session 9 - Linguistic Diversity and Democratic Outcomes

Wellness Center - Kiosk 37 Side C
Student Poster Session 9 - Psychological Influences That Affect College Student’s Reasoning for Binge Drinking at a Tailgate Event and Preventative Measures That Can Be Taken to Lessen Excessive Alcohol Consumption

Wellness Center - Kiosk 37 Side D
Student Poster Session 9 - Social Context Influence on Emotional Language Comprehension Through Facial Muscle Activity

Wellness Center - Kiosk 44 Side A
Student Poster Session 9 - Inflammasome Subset Assembly and Nociceptive Sensitivity in Mice

Wellness Center - Kiosk 44 Side B
Student Poster Session 9 - Perceived Stress in Marijuana-using Adolescents and Young Adults

Wellness Center - Kiosk 44 Side C
Student Poster Session 9 - The Impact of Exercise Environment on the Relation Between Social Physique Anxiety and Weekly Exercise

Wellness Center - Kiosk 49 Side A
Student Poster Session 9 - Thematic Analysis: Implications for a Behavioral Intervention Technology for Bipolar Disorder

Wellness Center - Kiosk 49 Side B
Student Poster Session 9 - Religious Studies

Wellness Center - Kiosk 49 Side C
Student Poster Session 9 - A Mobile Diagnostics Lab for Interdisciplinary Climate Research

Wellness Center - Kiosk 49 Side D
Student Poster Session 9 - Bringing Solar Energy to a Sunny State

Wellness Center - Kiosk 9 Side A
Student Poster Session 9 - Archaeometric Approaches to the Roman Near East

Wellness Center - Kiosk 9 Side B
Student Poster Session 9 - Archeometric Approaches to the Roman Near East

Wellness Center - Kiosk 9 Side C
Student Poster Session 9 - The Role of Religion in the Traditional Healing Practices of the Himba Ethnic Group of Namibia

Wellness Center - Kiosk 9 Side D
Student Poster Session 9 - Bringing Solar Energy to a Sunny State
| STUDENT POSTER SESSION 9 -  
FRI 4:00PM-5:00PM |
| STUDENT POSTER SESSION 10 -  
SAT 8:30AM-9:30AM |

**Wellness Center - Kiosk 9 Side C**  
*The Impact of Street Design on Pedestrian's Perceptions and Commuting Patterns*  
Max Garcia, Auburn University

**Wellness Center - Kiosk 9 Side A**  
*A Test of the Metric Method for Estimating Sex Using the Human Radius*  
Leigh Hayes, University of Wisconsin - Oshkosh

**Wellness Center - Kiosk 9 Side B**  
*Healthy Women Are Beautiful Women: Health and Beauty Standards at the Crystal Palace*  
Isabel Krum, North Dakota State University (Nlt)

**Wellness Center - Kiosk 9 Side C**  
*Tapping into the Past, Present, and Future - Building Capacity for Water Quality through Community Organizations*  
Kayleigh DeBruyne, University of Wisconsin - Stout

**Wellness Center - Kiosk 54 Side A**  
*The Fort Henry Collection: What Can We Learn from Artifacts Without Context*  
Zackariah Pagels, University of West Florida

**Wellness Center - Kiosk 55 Side A**  
*Jean Pucelle: Gothic Manuscript Artist*  
Shelby Dean, University of Central Oklahoma

**Wellness Center - Kiosk 54 Side B**  
*The Sound of Socialist Posters During the Lebanese Civil War*  
Jacob Jones, University of Central Oklahoma

**Wellness Center - Kiosk 55 Side C**  
*Understanding Terrorism: Street Art, Public Spaces, and Contemporary French Identity*  
Julia Hines, Hope College

| BIOLOGICAL ENGINEERING |
| Wellness Center - Kiosk 8 Side A |
| *Evaluation of Fiber Types in a Model of Neurona Pain Prevention* |
| Livia George, University of Texas at Dallas |

| Wellness Center - Kiosk 8 Side B |
| *The Effects of Forelimb Unloading on Glenohumeral Joint Development in Neonatal Rats* |
| Sophia Tushak, North Carolina State University |

| Wellness Center - Kiosk 8 Side C |
| *Thin Film Softening, Shape Memory Polymer Cuff Electrodes Evoke Reduced Nerve Injury After Sub-chronic Neuromodulation* |
| Danny Lam, University of Texas at Dallas |

| Wellness Center - Kiosk 25 Side A |
| *Semi-automated, Multi-modal Brain Parcellation Workflow for PET/MR Neuroimaging Analysis* |
| Sameera Grandhi, University of Alabama at Birmingham |

| Wellness Center - Kiosk 25 Side B |
| *The Use of Photo-Regulated Allosteric Inhibitors to Allow for a More Specific Targeting for Viral Vectors in the Delivery of Cytotoxic Materials* |
| Brennan Chaloux, Virginia Commonwealth University |

| Wellness Center - Kiosk 25 Side C |
| *Using Muscle Synergies, Intermanual Transfer, and Prosthetic Systems in Amputation Therapy and Prosthetic Training to Increase Control, Reaction Time, and Acceptance of Myoelectric Hand Prosthetics* |
| Kien Nguyen, Virginia Commonwealth University |
SAT 8:30AM-9:30AM

Wellness Center - Kiosk 52 Side C
OCT-Based Tissue Microindentation for Mechanical Characterization of Fibroblast-Positive Laminin Coated Collagen Lattices
Zheng Yie Yap, University of Central Oklahoma

Wellness Center - Kiosk 12 Side C
Population Genetics of Feral Cats in Harvey County, Kansas
Benjamin Wiens, Bethel College

Wellness Center - Kiosk 13 Side A
Characterization of Embryonic Osd-Bound Regions in Drosophila melanogaster
Rozmara Levina, New York University

Wellness Center - Kiosk 13 Side B
Investigation into the Effects of Temperature Stress on Caudal Fin Regeneration in Zebras.
Eric Moeller, California University of Pennsylvania

Wellness Center - Kiosk 13 Side C
Predicting the Effects of Substitution Mutations on H-Ras, K-Ras, & N-Ras Structure and Function
Hunter Gill, Indiana State University

Wellness Center - Kiosk 19 Side A
Assessing the Gut Microbiota Response to Fecal Microbiota Transplantation in Children with Clostridium Difficile Infection
Michelle Ahn, The George Washington University

Wellness Center - Kiosk 19 Side B
Comparison of Novel Mini-barcode Primers for eDNA-based Monitoring of Freshwater Ray-finned Fish Communities
Ashton Callipare, Duquesne University

Wellness Center - Kiosk 19 Side C
Evaluation of a Calving Time Detection Technology That Monitors Tail Movement in Dairy Cattle
Sarah Mac, University of Kentucky

Wellness Center - Kiosk 27 Side A
Modeling a Human Genetic Disease in Danio rerio Via CRISPR/Cas9-Induced Star Knock-out
Sean Ryan, Roanoke College

Wellness Center - Kiosk 27 Side B
Polar Cell Extension Coordination in Drosophila Melanogaster
Bradford Hull, University of Kentucky

Wellness Center - Kiosk 27 Side C
Selection of Heat-Shock Resistant Octavious Rex
Ryan Forster, Mount Saint Mary College

Wellness Center - Kiosk 48 Side A
The Role of Basigin in the Development and Regeneration of Retinal Neurons
Jasmyn Singh, University of West Florida

Wellness Center - Kiosk 48 Side B
Using SDS-PAGE to Test for the Presence of Urinary Proteins in Lemurs
Lee Byrum, NC. State University

Wellness Center - Kiosk 57 Side A
Valproate Prevents a Cytosolic VHH ATPase Subunit Insertion on Insulin Granule Membrane and Compromises Insulin Release in Min6 Cells
Nikhil Yadulla, Wayne State University

Wellness Center - Kiosk 57 Side B
YAK1 and VPL247 Affect Lipid Accumulation and Mating in Saccharomyces cerevisiae
Morgan Fellows, North Central College

Wellness Center - Kiosk 57 Side C
Osteogenic Gene Expression Profiles in MC3T3/E1 Cells, an In-vitro Model for Osteoblast Differentiation with Potential for Future Application in Osteogenic Differentiation of Mesenchymal Stem Cells
Alexia Maravosian, University of Tennessee at Knoxville

Wellness Center - Kiosk 37 Side A
Viability Assay & Potential Effects of E-Juice on CHO-K1 Cells
Stephanie Laughlin, Tulsa Community College

Wellness Center - Kiosk 37 Side B
Determination of Toxic Volatile Organic Compounds in Packaging Materials Received by the UCO Chemistry Stockroom Using Solid Phase Micro Extraction (SPME) and Gas Chromatography-Mass Spectrometry (GC-MS). A Comparative Study
George Wright, University of Central Oklahoma
### STUDENT POSTER SESSION 10 - SAT 8:30AM-9:30AM

#### WELLNESS CENTER - KIOSK 16 SIDE B
**Evaluating the Stability of Carbocations in Polyyclic Carbon Frameworks**
Nancy Guan, Smith College

#### WELLNESS CENTER - KIOSK 16 SIDE C
**Modification of Gold Nanoparticle Surface with Polyamidoamine (PAMAM) Dendrimers to Increase Biocompatibility**
Samira Darbandi, Northeastern State University

#### WELLNESS CENTER - KIOSK 31 SIDE A
**DHA and EPA Content of Fish Oil**
Rosalyn Bowie, Tarrant County College District

#### WELLNESS CENTER - KIOSK 31 SIDE B
**Extraction and Analysis of Agarita (Mahonia trifoliate)**
Marielena Boyle, University of the Incarnate Word

#### WELLNESS CENTER - KIOSK 50 SIDE C
**Effect of Small Molecules on Membrane Thickness: A Study in Specific Membrane Capacitance**
Alessandra Armenta, Iona College

#### WELLNESS CENTER - KIOSK 39 SIDE B
**The Effects of Affection Exchange & Relationships**
Noah Pinho, Eastern Connecticut State University

#### WELLNESS CENTER - KIOSK 39 SIDE C
**Building a Weighted Graph to Avoid Obstacles from an Image of the Environment**
Kevin Pehn, Elmhour College

#### WELLNESS CENTER - KIOSK 14 SIDE A
**Synthesizing Pictures From Text Using a DCGAN**
Anton Soloviev, Susquehanna University

#### WELLNESS CENTER - KIOSK 14 SIDE B
**Locating Mobile Devices Indoors Using WiFi Signal Strength Correlations**
Zakar Handricken, Bridgewater State University

#### WELLNESS CENTER - KIOSK 33 SIDE A
**Locating Mobile Devices Indoors Using WiFi Signal Strength Correlations**
Zakar Handricken, Bridgewater State University

#### WELLNESS CENTER - KIOSK 33 SIDE B
**UCO Augmented Reality Tourism App**
Daniel Williams, University of Central Oklahoma

#### WELLNESS CENTER - KIOSK 28 SIDE A
**Implications of Soil and Water Quality on the Economics of the Red Cedar Watershed**
Madison Biggs, Drake University

#### WELLNESS CENTER - KIOSK 28 SIDE B
**The Relationship Between Minimum Wage and Unemployment Rate**
Joseph Nguyen, Southwestern Oklahoma State University

#### WELLNESS CENTER - KIOSK 29 SIDE B
**Who Will Be the Apex Predator When Climate Change Affects Local Streams?**
Savannah Rhoads, Susquehanna University

#### WELLNESS CENTER - KIOSK 34 SIDE A
**Effects of Native and Invasive Crayfish Chemical Stimuli on Larval Salamander Growth**
Katie Fischer, Susquehanna University

#### WELLNESS CENTER - KIOSK 34 SIDE B
**Lava Heron Fishing Success: The Impact of Water Depth**
Ellen Munshower, College of Saint Benedict/ St. John’s University

#### WELLNESS CENTER - KIOSK 34 SIDE C
**The Effect of Drought Stress and Herbivory on VOC Emission in Phaseolus lunatus**
Peyton Klembara, Susquehanna University

#### WELLNESS CENTER - KIOSK 3 D SIDE B
**Changes in Student Conceptions of Fraction Multiplication**
Kayla Davis, Salisbury University

#### WELLNESS CENTER - KIOSK 3 D SIDE C
**Lessons from the Past: Teaching Empathy Through Historical Fiction**
Allison Uring, Hope College

#### WELLNESS CENTER - KIOSK 46 SIDE A
**Generations Learning Together**
Kendal Roach, University of Central Oklahoma

#### WELLNESS CENTER - KIOSK 46 SIDE B
**The Flipped Classroom: An Inverted Way to Teach**
Amanda Andrews, California University of Pennsylvania

#### WELLNESS CENTER - KIOSK 46 SIDE C
**From Texas to Tennessee: A Study of International Educational Exchange**
Sara Seay, Austin Peay State University

#### WELLNESS CENTER - KIOSK 6 SIDE A
**Accuracy Verification and Use Optimization of Open Source Macro Distributed Digital Geiger-Muller Dosimeter Through Hardware Analysis and Modification**
Michael Jerrell, Kennesaw State University

#### WELLNESS CENTER - KIOSK 6 SIDE B
**Characterizing Functionally Graded Ti-6Al-4V + Mo for Biocompatibility Enhancement**
Andrew Gray, Milwaukee School of Engineering

#### WELLNESS CENTER - KIOSK 6 SIDE C
**Deformation Behavior of Single Crystalline Nanoporous Copper Structures Under Tensile Loading**
Muhammad Hadi, University of Rochester
STUDENT POSTER SESSION 10 -
SAT 8:30AM-9:30AM

STUDENT POSTER SESSION 10 -
SAT 8:30AM-9:30AM

Wellness Center - Kiosk 21 Side A
AEM Study of a Dual Precipitation Microstructure in an Al-Si-Cu-V-Zr Alloy
Emily Callahan, University of Michigan

Wellness Center - Kiosk 21 Side B
Improving Surface Characterization Techniques for Ceramic Micro-Fibers
Spencer Danureau, Montana State University Bozeman

Wellness Center - Kiosk 21 Side C
Phosphorus Storage & Transport in Ravine Waterways
Jordan Bengston, Minnesota State University, Mankato

Wellness Center - Kiosk 35 Side A
Quantifying Flagella-Driven Cellular Motility in Increased Medium Viscosity
Kara Clark, University of Central Oklahoma

Wellness Center - Kiosk 35 Side B
Take Home Control Laboratory Equipment Design
Jason Choo, Kennesaw State University

Wellness Center - Kiosk 35 Side C
X-ray Induced Acoustic Computed Tomography
Elijah Robertson, University of Oklahoma Norman Campus

Wellness Center - Kiosk 22 Side A
The Appearance of Archetypes in Lewis Carroll’s Through the Looking Glass
Jennifer Retten, University of Wisconsin - Superior

Wellness Center - Kiosk 22 Side B
The Influence of Language on Junot Diaz’s The Brief Wondrous Life of Oscar Wao
Morgan Chapman, Norwich University

Wellness Center - Kiosk 22 Side C
The White Gaze on “Black Theatre”: How the Perception of the White Mainstream Reinforces the Reproduction of Minstrelsy on Broadway
Alexia Williams, Elon University

Wellness Center - Kiosk 26 Side A
Memes and the 2016 Election
Taylor Kodric, California University of Pennsylvania

Wellness Center - Kiosk 26 Side B
Past & Present: Finding American Identity in the Venetian Expatriate Community
Katrin Kelley, Hope College

GEOGRAPHY & EARTH SCIENCES

Wellness Center - Kiosk 5 Side A
A Project of Paleozoic Proportions: Strategies for the Curation, Digitization, and Outreach of the Royal H. Mapes Invertebrate Paleontology Collection
Sarah Rubhn, Montana State University Bozeman

Wellness Center - Kiosk 5 Side B
Predicting Leaf Area Index in Alfalfa, Oats, and Spring Wheat Crops Using Field Spectroscopy
Shaundra Rasmussen, University of Wisconsin - Whitewater

Wellness Center - Kiosk 5 Side C
People and Place in Pastoral Systems
Olivia Baxter, Colorado State - Colorado State University-Cooperative Extension-Jefferson County

GEOGRAPHY & EARTH SCIENCES

HEALTH SCIENCES & PUBLIC HEALTH

Wellness Center - Kiosk 23 Side A
Sexual Assault and Chinese International Students on a College Campus
Emily Wilson, Miami University

Wellness Center - Kiosk 23 Side B
Solving Crime One Tooth at a Time
Anna Malacki, Westmoreland County Community College

Wellness Center - Kiosk 42 Side B
Determinants of Intimate Partner Violence
TaShauna Williams, University of West Florida

Wellness Center - Kiosk 42 Side C
An Examination of Access to Menstrual Hygiene Products Among Adult Women in Washington D.C. Homeless Shelters
Maria Esposito, American University

Wellness Center - Kiosk 44 Side A
Freedom Made Tangible Through Genealogy
Trista Wilmot, University of Central Oklahoma

Wellness Center - Kiosk 44 Side B
“Despotic Monopoly in Trade”
Blake Janak, University of Central Oklahoma

Wellness Center - Kiosk 45 Side B
“Is That All?”: Media Portrayal of Women in the 1950s and 1960s
Katy Elmore, Southwestern Oklahoma State University

INTERDISCIPLINARY STUDIES

Wellness Center - Kiosk 18 Side A
Pollution Is the New Black
Bethany Ryan, University of West Florida

Wellness Center - Kiosk 18 Side B
A Study of Non-Cognitive Factors that Impact 4-Year Graduation Rates at CSULB
Jennifer Solorzano, California State University - Long Beach

Wellness Center - Kiosk 18 Side C
The Faces and Phases of Science
Patrick De Paula, Lone Star College System The Honors College

ENGLISH

Wellness Center - Kiosk 22 Side A
The Appearance of Archetypes in Lewis Carroll’s Through the Looking Glass
Jennifer Retten, University of Wisconsin - Superior

Wellness Center - Kiosk 22 Side B
The Influence of Language on Junot Diaz’s The Brief Wondrous Life of Oscar Wao
Morgan Chapman, Norwich University

Wellness Center - Kiosk 22 Side C
The White Gaze on “Black Theatre”: How the Perception of the White Mainstream Reinforces the Reproduction of Minstrelsy on Broadway
Alexia Williams, Elon University

Wellness Center - Kiosk 26 Side A
Memes and the 2016 Election
Taylor Kodric, California University of Pennsylvania

Wellness Center - Kiosk 26 Side B
Past & Present: Finding American Identity in the Venetian Expatriate Community
Katrin Kelley, Hope College

Wellness Center - Kiosk 5 Side A
A Project of Paleozoic Proportions: Strategies for the Curation, Digitization, and Outreach of the Royal H. Mapes Invertebrate Paleontology Collection
Sarah Rubhn, Montana State University Bozeman

Wellness Center - Kiosk 5 Side B
Predicting Leaf Area Index in Alfalfa, Oats, and Spring Wheat Crops Using Field Spectroscopy
Shaundra Rasmussen, University of Wisconsin - Whitewater

Wellness Center - Kiosk 5 Side C
People and Place in Pastoral Systems
Olivia Baxter, Colorado State - Colorado State University-Cooperative Extension-Jefferson County

Wellness Center - Kiosk 23 Side A
Sexual Assault and Chinese International Students on a College Campus
Emily Wilson, Miami University

Wellness Center - Kiosk 23 Side B
Solving Crime One Tooth at a Time
Anna Malacki, Westmoreland County Community College

Wellness Center - Kiosk 42 Side B
Determinants of Intimate Partner Violence
TaShauna Williams, University of West Florida

Wellness Center - Kiosk 42 Side C
An Examination of Access to Menstrual Hygiene Products Among Adult Women in Washington D.C. Homeless Shelters
Maria Esposito, American University

Wellness Center - Kiosk 44 Side A
Freedom Made Tangible Through Genealogy
Trista Wilmot, University of Central Oklahoma

Wellness Center - Kiosk 44 Side B
“Despotic Monopoly in Trade”
Blake Janak, University of Central Oklahoma

Wellness Center - Kiosk 45 Side B
“Is That All?”: Media Portrayal of Women in the 1950s and 1960s
Katy Elmore, Southwestern Oklahoma State University

INTERDISCIPLINARY STUDIES

Wellness Center - Kiosk 18 Side A
Pollution Is the New Black
Bethany Ryan, University of West Florida

Wellness Center - Kiosk 18 Side B
A Study of Non-Cognitive Factors that Impact 4-Year Graduation Rates at CSULB
Jennifer Solorzano, California State University - Long Beach

Wellness Center - Kiosk 18 Side C
The Faces and Phases of Science
Patrick De Paula, Lone Star College System The Honors College
SAT 8:30AM-9:30AM

KINESIOLOGY & EXERCISE

Wellness Center - Kiosk 30 Side A
Evaluating the Effectiveness of Applying Grief-Response Models to Sport Injury in Collegiate Student-Athletes
Sydney Brown, Elon University

Wellness Center - Kiosk 30 Side B
Relationship of an Adolescent's Descriptive Drinking Norms: If I Think They Drink, I Won't Date Them
Jordyn Greenlee, Miami University

Wellness Center - Kiosk 30 Side C
Photoimmunodulation Effects of Blue and Red Light Therapy on Elbow Flexion Fatigue
Austin Hagan, Texas State University - San Marcos

MATHEMATICS

Wellness Center - Kiosk 7 Side A
Comparing Units in Different Curricula Addressing the Domain Operations & Algebraic Thinking from Grades K-2
Gabriela Rios, Eastern Washington University

Wellness Center - Kiosk 7 Side B
Mathematical Models of the Mammalian Circadian Oscillator and Alcohol Dependency
Grace Kelting, University of Central Oklahoma

Wellness Center - Kiosk 7 Side C
Classifying the Domain Operations & Algebraic Thinking from Grades K-2
Gabriela Rios, Eastern Washington University

NEUROSCIENCE

Wellness Center - Kiosk 14 Side C
Sex Differences in Neural Projections to the Periaqueductal Gray: Identification of Novel Pathways in Female Rats
Daisy Cantu, Texas Woman's University

Wellness Center - Kiosk 38 Side A
Using Bioinformatic Analysis and CRISPR Gene Editing to Develop Attenuated Strains of Leishmania as a Potential Vaccine
Johanna Hoshizaki, McGill University, Montreal (Quebec)

Wellness Center - Kiosk 38 Side B
Determining Direct and Indirect Antibacterial Effects of P22-capsid
Mary Watson, Montana State University Bozeman

Wellness Center - Kiosk 38 Side C
Characterization of Immunomodulated Wild-type Microglial Cells (WTMCL)
Grace Gasser, Iowa State University

MICROBIOLOGY & IMMUNOLOGY

Wellness Center - Kiosk 32 Side A
Role of MiRNA-145 on Pathophysiology of Cystic Fibrosis
Adekunle Ayokanmbi, University of Alabama at Birmingham

Wellness Center - Kiosk 32 Side B
The Type 1 Interferon System's Role in Struct-
turing the Lung Microbiome
Hanhyul Cho, Montana State University Bozeman

Wellness Center - Kiosk 32 Side C
The Use of Essential Oils to Combat Streptococcus Pneumoniae
Eric Bryan, Monmouth University

Wellness Center - Kiosk 53 Side A
Characterization of Immortalized Wildtype Microglial Cells (WTMCL)
Grace Gasser, Iowa State University

Wellness Center - Kiosk 53 Side B
Stress in Action: Mapping and Manipulating a Central Amygdala Projection to the Substantia Nigra
Sofia Carozza, Notre Dame University Of Chicago

Wellness Center - Kiosk 53 Side C
The Effect of Vitamin B12 Deficiency on Cognitive Impairment
Ye-Lim Lim, Iowa State University

PHYSICS

Wellness Center - Kiosk 40 Side A
Electron Based Calculations of Phonon Dispersion in Silicon Nano Membranes of Increasing Thickness
Evan Macintosh, University of Wisconsin - Parkside

Wellness Center - Kiosk 40 Side B
Increasing Hydrophobicity of Thin Films Using Dip Coating
Mohamed Mohamed, Hamline University

Wellness Center - Kiosk 40 Side C
Understanding the Connection Between the X-ray and Water Maser Emission in Galaxy Centers
Noah Ripchick, James Madison University

Wellness Center - Kiosk 40 Side D
Using Bioinformatics Analysis and CRISPR Gene Editing to Develop Attenuated Strains of Leishmania as a Potential Vaccine
Johanna Hoshizaki, McGill University, Montreal (Quebec)

PHYSIOLOGY

Wellness Center - Kiosk 61 Side A
Impact of Nicotine on the Distribution of Cytokines in Each Trimester of Pregnancy
Emma Witterkind, Asbury University

Wellness Center - Kiosk 61 Side B
An Exploration of the Evidence on Preventing Wrong-Site Surgery
Paige Fraley, State University of New York-Brockport

Wellness Center - Kiosk 61 Side C
Assessing Genetic Differences in Learning and Healthy Aging and Feedback-based Learning: A Study by Academic Division
Cody Loveless, Miami University

PHILOSOPHY & ETHICS

Wellness Center - Kiosk 49 Side A
Uncovering Sartre: Analysis of an Unpublished Journal
Dvalla Samadi, University of Kentucky

Wellness Center - Kiosk 49 Side B
Vico's Characterization of Myth and Philosophy
Joseph Payne, Mercer University

NURSING

Wellness Center - Kiosk 61 Side D
The Effect of Stress Peptide Urocortins on the Intestinal Epithelial Barrier Function
Hafsa Qazi, University of Wisconsin - La Crosse

Wellness Center - Kiosk 61 Side E
Examining College Student Drinking Motives by Academic Division
Cody Loveless, Miami University

Wellness Center - Kiosk 61 Side F
Healthy Aging and Feedback-based Learning: Assessing Genetic Differences in Learning and Transfer
Annika Awad, St. Olaf College
STUDENT POSTER SESSION 10 - SAT 8:30AM-9:30AM

Wellness Center - Kiosk 41 Side C
One Size May Not Fit All: Investigating How the Intersection of Race, Gender, and Stigma Consciousness Predicts Effective Role Models for Black Female Students
Ashanti Deasanguste, Elon University

Wellness Center - Kiosk 41 Side D
Coping with Stress in Police Officers as It Correlates with Subjective Well-Being
Marcus Alexander, University of Memphis - Lambuth

Wellness Center - Kiosk 42 Side A
Effects of Music Lyrics on Narcissism Scores
Morgan Nicoll, University of Central Oklahoma

Wellness Center - Kiosk 42 Side B
How We Can Accept Our Own Thoughts and Feelings: Effects of Self-esteem and a Sense of Life’s Meaning
Karina Yamaguchi, Musashino University

Wellness Center - Kiosk 43 Side A
Examining the Grain-Size Lineup While Making Cross-Race Identifications
Blair Braun, University of Wisconsin - Oshkosh

Wellness Center - Kiosk 43 Side B
Memory for Rapidly Presented Images Is Related to Hippocampal Subfields Volume
Sruthi Ramesh, Wayne State University

Wellness Center - Kiosk 43 Side C
Perceptions of Bilingual Assessment
Heidi Pena Ortiz, Adelphi University

Wellness Center - Kiosk 47 Side A
Coping with Stress in Police Officers as It Correlates with Subjective Well-Being
Marcus Alexander, University of Memphis - Lambuth

Wellness Center - Kiosk 47 Side B
Effect of Gender and Exercise on Mental Rotation
Julia Kearley, Iona College

Wellness Center - Kiosk 47 Side C
Sleep Deprivation Increases Credulity to Explicitly-Labeled False Information
Madison Nowling-Kjellberg, Hamline University

Wellness Center - Kiosk 51 Side A
Learning While Black: Understanding the Lived Realities of Black Students Attending Predominately White Universities
Amari Hobgood, University of North Carolina at Greensboro

Wellness Center - Kiosk 51 Side B
Center of Excellence, IN-CORE Cross Disciplinary Glossary
Sydney Edwards, Iowa State University

Wellness Center - Kiosk 58 Side A
Polyamory and Open Relationships: An Analysis of College Student Perceptions
Laura Moore, University of Central Oklahoma

Wellness Center - Kiosk 58 Side B
Old, Unskilled and Penniless: How Government Sponsored Repatriation Programs Have Failed to Educate and Empower Ecuadorian Women Returning from Spain After the 2008 Financial Crisis
Gabriela Larkin, George Mason University

Wellness Center - Kiosk 58 Side C
Gender Differences in STEM Courses at KSU?
Emma Evans, Kennesaw State University

Wellness Center - Kiosk 60 Side A
Visual Search and Alcoholism
Taryn Donson, University of Central Oklahoma

Wellness Center - Kiosk 60 Side B
Social Norms of Prejudice: Investigating Perceptions of Stigmatized Groups
Celine Aslinia, Indiana University

SUSTAINABILITY

Wellness Center - Kiosk 24 Side A
A Low-input Alternative Healing System for Grafted Tomato Transplants
Neel Solanki, Iowa State University

Wellness Center - Kiosk 24 Side B
Project: Sustainability, Fog Harvesting
Bentley Davis, San Jacinto College Honors Program

Wellness Center - Kiosk 29 Side C
Climate Change in South Africa
Cassadee Clements, Texas Woman’s University

WOMEN AND GENDER STUDIES

Wellness Center - Kiosk 2 Side A
Polyamory and Open Relationships: An Analysis of College Student Perceptions
Laura Moore, University of Central Oklahoma

Wellness Center - Kiosk 2 Side B
Gender Differences in STEM Courses at KSU?
Emma Evans, Kennesaw State University

Wellness Center - Kiosk 11 Side A
Gender Differences in STEM Courses at KSU?
Emma Evans, Kennesaw State University

Wellness Center - Kiosk 11 Side B
Preliminary Analysis of Male Perspectives on Reproductive Coercion
Honour McDaniel, University of Kentucky
STUDENT POSTER SESSION 11 - SAT 9:45AM-10:45AM

STUDENT POSTER SESSION 11 - SAT 9:45AM-10:45AM

ANTHROPOLOGY & ARCHEOLOGY

Wellness Center - Kiosk 24 Side A
Cultural Changes During the Protohistoric Period: A La Crosse Oneota Case Study
Jaelyn Roland, University of Wisconsin - La Crosse

Wellness Center - Kiosk 24 Side B
Evidence of Ad Sanctus Burial in Medieval Romania
Grady Puckett, Western Carolina University

Wellness Center - Kiosk 24 Side C
Dental Anthropological Reflections on the Human Condition at Two Byzantine Sites in Thrace, Greece
Joanna Gavras, Adelphi University

BIOCHEMISTRY

Wellness Center - Kiosk 10 Side A
TriCarin, A Synergistic Combination of Curcumin, Epicatechin Gallate and Resveratrol, Repolarizes Tumor-Associated Microglia/Macrophages, and Eliminates Glioblastoma (GBM) and GBM Stem Cells
Samay Sampar, New York University

Wellness Center - Kiosk 10 Side B
Chitosan and Competitive Binding of Nickel (II) and Copper (II)
Kylie Russell, Hamline University

Wellness Center - Kiosk 10 Side C
Genotype-Phenotype Correlations for Protein O-Linked-Mannose N-Acetylglucosaminyltransferase 1 in Congenital Muscular Dystrophy
Jessica Ho, University of Georgia

Astronomy

Wellness Center - Kiosk 25 Side A
Investigation of Luminance-and B-Band Width-Luminosity Relationship and Further Observations of Type Ia Supernovae at the BSO Observatory
Adam Gustafson, Bridgewater State University

Wellness Center - Kiosk 25 Side B
Mapping Periglacial Landscapes on Mars
Malmi Kirwandalage, Suffolk County Community College

Wellness Center - Kiosk 25 Side C

BIOLOGY

Wellness Center - Kiosk 29 Side A
Emerging Evidence for BAX-Inhibitor-1 (BI-1) in Regulating Cell Death Susceptibility in Idiopathic Pulmonary Fibrosis Fibroblasts
Anthony Doane, George Mason University

Wellness Center - Kiosk 52 Side A
Paleoecological Investigation of the Effect of Rainbow Trout Predation on Zooplankton Body Size and Community Composition
Anna Ries, Hamline University

Wellness Center - Kiosk 54 Side A
In Vitro Antidiabetic and Antioxidant Activities of Dioscorea Morus alba (Moraceae) Extracts from Spring and Fall
Charitha Thallapareddy, Texas Woman’s University

Wellness Center - Kiosk 54 Side B
Oka’ Yanahli Nature Preserve Baseline Mammal Survey
Wendy Monterroso, University of Central Oklahoma

Wellness Center - Kiosk 54 Side C
Rho Kinase Inhibitor Is Involved in L-type Voltage-dependent Calcium Channel Pathway in Vascular Smooth Muscle Cells
Josh Baty, University of Evansville

Wellness Center - Kiosk 60 Side A
The Transcription Factor Zif/29 Is Required for C. elegans Nervous System Development
Ciara Hosea, Kennesaw State University

Wellness Center - Kiosk 60 Side B
Vitamin D Receptor in a Mouse Model of Huntington Disease
Ramasya Naikalakonda, University of Alabama at Birmingham

Business/Finance/Accounting

Wellness Center - Kiosk 50 Side A
How Do Business Students Select Their Majors?
Alexandra Munger, University of Central Oklahoma

Wellness Center - Kiosk 50 Side B
How Innovation District Cities and Their Affiliated Universities Grow Community to Stimulate Economic Development
Mindy Vo, University of Central Oklahoma

Wellness Center - Kiosk 50 Side C
Developing Sustainable Supply Chain Strategies in the Food Industry
Daniel Lusionsen, University of Wisconsin - Whitewater

Cell & Molecular Biology

Wellness Center - Kiosk 19 Side B
The Effect of the Loss of Nonsense-mediated MRNA Decay on Naturally Occurring Variants
Ashley Wiltz, University of Utah

Wellness Center - Kiosk 48 Side C
Modeling the Human Knee
Katherine Bushway, University of Rochester

Wellness Center - Kiosk 48 Side D

Wellness Center - Kiosk 48 Side E

Wellness Center - Kiosk 58 Side A
How Do Business Students Select Their Majors?
Alexandra Munger, University of Central Oklahoma

Wellness Center - Kiosk 58 Side B
Understanding Voltage-gated Sodium Channel Auxiliary Subunits Via Bioinformatics
Nathaly Maia, Kennesaw State University

Wellness Center - Kiosk 58 Side C
Urban Agriculture as a Business
Jazmin Wilson, University of Wisconsin - Whitewater

Wellness Center - Kiosk 58 Side D

Wellness Center - Kiosk 58 Side E

Wellness Center - Kiosk 58 Side F

Wellness Center - Kiosk 58 Side G

Wellness Center - Kiosk 58 Side H

Wellness Center - Kiosk 58 Side I

Wellness Center - Kiosk 58 Side J

Wellness Center - Kiosk 58 Side K

Wellness Center - Kiosk 58 Side L

Wellness Center - Kiosk 58 Side M

Wellness Center - Kiosk 58 Side N

Wellness Center - Kiosk 58 Side O

Wellness Center - Kiosk 58 Side P

Wellness Center - Kiosk 58 Side Q

Wellness Center - Kiosk 58 Side R

Wellness Center - Kiosk 58 Side S

Wellness Center - Kiosk 58 Side T

Wellness Center - Kiosk 58 Side U

Wellness Center - Kiosk 58 Side V

Wellness Center - Kiosk 58 Side W

Wellness Center - Kiosk 58 Side X

Wellness Center - Kiosk 58 Side Y

Wellness Center - Kiosk 58 Side Z

Wellness Center - Kiosk 58 Side AA

Wellness Center - Kiosk 58 Side BB

Wellness Center - Kiosk 58 Side CC

Wellness Center - Kiosk 58 Side DD

Wellness Center - Kiosk 58 Side EE

Wellness Center - Kiosk 58 Side FF

Wellness Center - Kiosk 58 Side GG

Wellness Center - Kiosk 58 Side HH

Wellness Center - Kiosk 58 Side II

Wellness Center - Kiosk 58 Side JJ

Wellness Center - Kiosk 58 Side KK

Wellness Center - Kiosk 58 Side LL

Wellness Center - Kiosk 58 Side MM

Wellness Center - Kiosk 58 Side NN

Wellness Center - Kiosk 58 Side OO

Wellness Center - Kiosk 58 Side PP

Wellness Center - Kiosk 58 Side QQ

Wellness Center - Kiosk 58 Side RR

Wellness Center - Kiosk 58 Side SS

Wellness Center - Kiosk 58 Side TT

Wellness Center - Kiosk 58 Side UU

Wellness Center - Kiosk 58 Side VV

Wellness Center - Kiosk 58 Side WW

Wellness Center - Kiosk 58 Side XX

Wellness Center - Kiosk 58 Side YY

Wellness Center - Kiosk 58 Side ZZ

Wellness Center - Kiosk 58 Side AAA

Wellness Center - Kiosk 58 Side BBB

Wellness Center - Kiosk 58 Side CCC

Wellness Center - Kiosk 58 Side DDD

Wellness Center - Kiosk 58 Side EEE

Wellness Center - Kiosk 58 Side FFF

Wellness Center - Kiosk 58 Side GGG

Wellness Center - Kiosk 58 Side HHH

Wellness Center - Kiosk 58 Side III

Wellness Center - Kiosk 58 Side JJJ

Wellness Center - Kiosk 58 Side KKK

Wellness Center - Kiosk 58 Side LLL

Wellness Center - Kiosk 58 Side MMM

Wellness Center - Kiosk 58 Side NNN

Wellness Center - Kiosk 58 Side OOO

Wellness Center - Kiosk 58 Side PPP

Wellness Center - Kiosk 58 Side QQQ

Wellness Center - Kiosk 58 Side RRR

Wellness Center - Kiosk 58 Side SSS

Wellness Center - Kiosk 58 Side TTT

Wellness Center - Kiosk 58 Side UUU

Wellness Center - Kiosk 58 Side VVV

Wellness Center - Kiosk 58 Side WWW

Wellness Center - Kiosk 58 Side XXX

Wellness Center - Kiosk 58 Side YYY

Wellness Center - Kiosk 58 Side ZZZ

Wellness Center - Kiosk 58 Side AAAA

Wellness Center - Kiosk 58 Side BBBB

Wellness Center - Kiosk 58 Side CCCC

Wellness Center - Kiosk 58 Side DDDD

Wellness Center - Kiosk 58 Side EEEE

Wellness Center - Kiosk 58 Side FFFF

Wellness Center - Kiosk 58 Side GGGG

Wellness Center - Kiosk 58 Side HHHH

Wellness Center - Kiosk 58 Side IIII

Wellness Center - Kiosk 58 Side JJJJ

Wellness Center - Kiosk 58 Side KKKK

Wellness Center - Kiosk 58 Side LLLL

Wellness Center - Kiosk 58 Side MMMM

Wellness Center - Kiosk 58 Side NNNN

Wellness Center - Kiosk 58 Side OOOO

Wellness Center - Kiosk 58 Side PPPP

Wellness Center - Kiosk 58 Side QQQQ

Wellness Center - Kiosk 58 Side RRRR

Wellness Center - Kiosk 58 Side SSSS

Wellness Center - Kiosk 58 Side TTTT

Wellness Center - Kiosk 58 Side UUUU

Wellness Center - Kiosk 58 Side VVVV

Wellness Center - Kiosk 58 Side WWWW

Wellness Center - Kiosk 58 Side XXXX

Wellness Center - Kiosk 58 Side YYYY

Wellness Center - Kiosk 58 Side ZZZZ

Wellness Center - Kiosk 58 Side AAAA
STUDENT POSTER SESSION 11 -  SAT 9:45AM-10:45AM

Wellness Center - Kiosk 19 Side C
Viability of Cancerous and Normal Cells Under Low- and High-dose Laser Irradiation
Sana Mesija, University of Central Oklahoma

Wellness Center - Kiosk 31 Side A
Primer Server - a Web Application to Design Primers for the Amplification of Unique DNA Targets in Complex Genomes
Takao Shibamoto, Iowa State University

Wellness Center - Kiosk 46 Side B
Role of MyTH4-FERM Myosin in Filopodia Initiation Within Dictyostelium discoideum
Liviu Songster, University of Minnesota, Twin Cities

Wellness Center - Kiosk 46 Side A
Characterizing the Role of Rh in Planarian Regeneration and Homeostasis
Roshni Thachil , Stanford University

Wellness Center - Kiosk 46 Side C
Real-time Analysis of Cellular Trafficking of APEI in Cancer Cells
Steven Ho, Kennesaw State University

Wellness Center - Kiosk 7 Side B
Nazarov Cyclization with Magnetite
Nadine Samilpa, Southern Nazarene University

Wellness Center - Kiosk 21 Side B
Qualitative Determination of the Adherence of VOCs to Building Materials
Jillian Turner, Georgia College and State University

Wellness Center - Kiosk 21 Side C
Employing Spectroscopic Techniques to Study Structural Distortions of DNA Induced by Platinum-Based Drugs: Carboblatin and Nedaplatin
Aishwarya Lanaka, Texas Woman’s University

Wellness Center - Kiosk 26 Side A
Supplementing Student Engagement Using Games in Undergraduate General Chemistry
Anna Fry, University of Wisconsin - Whitewater

Wellness Center - Kiosk 26 Side B
Synthesis of Precursors to Pincer Pyridine-based N-heterocyclic Carbenes with Fluorinated Wingtips
Colton Calvert, Southern Nazarene University

Wellness Center - Kiosk 26 Side C
Synthetic Thiophene-Based Derivatives for Photovoltaic Material
Ching-Wen Lin, The University of Findlay

Wellness Center - Kiosk 47 Side A
Examining the Viscosity of PEG-PDMAEMA as a Function of pH and Temperature
Robert Huber, University of Wisconsin - Eau Claire

Wellness Center - Kiosk 47 Side B
Investigation of Student Attitudes and Understanding in an Online Versus Traditional Introduction to Inorganic Chemistry Course
Hannah Nennig, University of Wisconsin - Eau Claire

Wellness Center - Kiosk 47 Side C
The Impact of Peer Participation on Augmentative and Alternative Communication Usage by Individual with Severe to Profound Disability
Alana Snider, Eastern Illinois University

CHEMICAL ENGINEERING
Wellness Center - Kiosk 1 Side A
Developing a Synthetic Sea Urchin Exoskeleton to Absorb Carbon Dioxide from Flue Gas and Neutralize the Increasing Ocean Acidity
Alexis Base, Florida Atlantic University

Wellness Center - Kiosk 1 Side B
Dynamic LCE Networks
Amy Merlay, University of Chicago

CHEMISTRY
Wellness Center - Kiosk 7 Side A
Role of Induction and Hyperconjugation in Haloacetic Acids
Rebecca Rudisell, Indiana State University

Wellness Center - Kiosk 7 Side B
Fundamentals of Inorganic Chemistry
Catherine O’Connell, University of Wisconsin - Eau Claire

Wellness Center - Kiosk 57 Side A
Nazarov Cyclization with Magnetite
Nadine Samilpa, Southern Nazarene University

Wellness Center - Kiosk 57 Side B
Qualitative Determination of the Adherence of VOCs to Building Materials
Jillian Turner, Georgia College and State University

Wellness Center - Kiosk 57 Side C
Employing Spectroscopic Techniques to Study Structural Distortions of DNA Induced by Platinum-Based Drugs: Carboblatin and Nedaplatin
Aishwarya Lanaka, Texas Woman’s University

Wellness Center - Kiosk 57 Side D
Supplementing Student Engagement Using Games in Undergraduate General Chemistry
Anna Fry, University of Wisconsin - Whitewater

COMPUTER SCIENCE
Wellness Center - Kiosk 16 Side A
Fission-fusion Dynamics Improve Foraging Efficiency Across Multiple Resource Patches
Hope Salzman, Southern Nazarene University

Wellness Center - Kiosk 16 Side B
Reduced Overfitting in Convolutional Neural Networks Through Restricted Filter Counts on Deep Networks
Nicholas Telfer, Utah Valley University

Wellness Center - Kiosk 16 Side C
PerfSonar and OFFN: Diagnosing and Testing Science DMZ Connections for the High-Speed Transfer of Large Data-sets on Oklahoma Friction Free Network
Dylan Ortega, Southwestern Oklahoma State University

COMMUNICATION SCIENCES & DISORDERS
Wellness Center - Kiosk 15 Side A
An Investigation of Instructional Methodologies for Teaching Grammar in a Speech-Langauge Pathology Program
Shane Reed, University of Central Oklahoma

Wellness Center - Kiosk 15 Side B
 Fundamental Frequency and Pitch Variation

ECOLOGY & ORGANISIMAL BIOLOGY
Wellness Center - Kiosk 6 Side A
A Multi-year Study of Diatom Communities in the Upper Main Stem of the Susquehanna River Summer 2017
Joshua Levesque, Susquehanna University
STUDENT POSTER SESSION 11 - SAT 9:45AM-10:45AM

**Wellness Center - Kiosk 6 Side B**
- Micronutrients of Burned Ponderosa Pine Soils
  - Tyler Talbott, Eastern Washington University

**Wellness Center - Kiosk 6 Side C**
- Beep-Beep! Assessing the Influence of Roadrunner Predation on Free-Ranging Collared Lizards
  - Danielle O’Connor, University of Central Oklahoma

**Wellness Center - Kiosk 18 Side A**
- Biodiversity of Salamanders in Central and Southeast Ohio
  - Brandyn Shipley, Capital University

**Wellness Center - Kiosk 18 Side B**
- Geographic Variation in Milkweed Growth: Implications for Habitat Restoration
  - Zoia Lor, St. Olaf College

**Wellness Center - Kiosk 18 Side C**
- The Effect of a Surfactant Seed Coating on Alkali Bulrush Germination and Biomass
  - Anders Hart, Utah State University

**Wellness Center - Kiosk 49 Side A**
- Effects of Flowering Plant Species Richness on Arthropod Order Richness in Grassland Ecosystems
  - Lucas Goodman, Iowa State University

**Wellness Center - Kiosk 49 Side C**
- Social Interactions in the Solitary Sweat Bee, Systropha curvicornis (Hymenoptera: Halictidae, Rophitinae)
  - Connor Chambers, University of Kansas School of Medicine

**EDUCATION**

**Wellness Center - Kiosk 17 Side B**
- The Dragon Research Collaborative: A PAR Case Study in Transdisciplinary Pedagogy
  - Matthew Myers, Roanoke College

**Wellness Center - Kiosk 17 Side C**
- Lions and Tigers and Teens: Investigating Volunteer Experiences in Informal Science Education
  - Leah Caddeback, Texas State University - San Marcos

**Wellness Center - Kiosk 20 Side A**
- Improving School Home Communication Practices for Young Adolescents: Interview and Survey Analysis
  - Alyssa Nelson, University of Wisconsin - La Crosse

**Wellness Center - Kiosk 20 Side B**
- Analyzing Tasks and Student Engagement
  - Ashley Grubb, Western Carolina University

**Wellness Center - Kiosk 20 Side C**
- Outdoor Biology Activities, Science Standards, and Elementary Education
  - Rachel Watkins Waner, University of Central Oklahoma

**ELECTRICAL ENGINEERING**

**Wellness Center - Kiosk 3 Side A**
- Active Monitoring of Chemical Fume Hood Sash Position for Energy Conservation
  - Laura Becerra, University of San Diego

**Wellness Center - Kiosk 3 Side B**
- Optimizing Activity Detection Via Sensor Fusion
  - Farid Khondaker, Arizona State University, Tempe

**ENGINEERING/ENGINEERING TECHNOLOGY**

**Wellness Center - Kiosk 14 Side B**
- The Kineti-Charge
  - Wesley Tinley, Kennesaw State University

**Wellness Center - Kiosk 22 Side A**
- Can a Diabetic Drug Affect the Reproductive Behavior of the Fathead Minnow (Pimephales promelas) After a Three Month Chronic Exposure?
  - Matthew Nanna, Ithaca College

**Wellness Center - Kiosk 27 Side A**
- The Effects of Liquid Smoke Exposure on the Germination of Native Range Plants of North America
  - Ian Smith, Texas Tech University

**Environmental Studies & Sciences**

**Wellness Center - Kiosk 27 Side B**
- Urban Phosphorus Loading and Runoff into Half Moon Lake, Wisconsin
  - Mai Lia Vang, University of Wisconsin - Stout

**Wellness Center - Kiosk 27 Side C**
- Wetland Delineation Using IRIS Tubes and Hydric Soil Properties in Central Georgia
  - Cameron Skinner, Georgia College and State University

**Health Sciences & Public Health**

**Wellness Center - Kiosk 37 Side A**
- Association of Obesity with Health Behaviors Among African Americans in the “Buckle” of the Stroke Belt
  - Brooke Davis, University of West Florida

**Wellness Center - Kiosk 37 Side B**
- Emerging Barriers & Concerns Regarding Healthcare Among African Americans
  - Madeline Tenorl, Weber State University

**Wellness Center - Kiosk 45 Side B**
- “Focusing” on Your ADHD Patient
  - Sarah Bauman, Westmoreland County Community College

**Information Technology**

**Wellness Center - Kiosk 4 Side A**
- A Collaborative Government-University-Industry Model for a STEM Career-Education Pathway: Phase III: The R&D of Forensic Analytics and Biometrics
  - Kathleen Brown, University of Central Oklahoma

**Riparian Buffer Impact on Stream Health in the Wilson Annis Watershed, Dunn County, WI**
- Elizabeth Soua, Sam Houston State University

**Wellness Center - Kiosk 28 Side B**
- A Retrospective Investigation into Live Discharges at a Hospice Organization
  - Abigail Coalson, University of West Florida

**Wellness Center - Kiosk 28 Side C**
- “Focusing” on Your ADHD Patient
  - Sarah Bauman, Westmoreland County Community College

**STUDENT POSTER SESSION 11 - SAT 9:45AM-10:45AM**

**Wellness Center - Kiosk 28 Side A**
- “Focusing” on Your ADHD Patient
  - Sarah Bauman, Westmoreland County Community College

**Wellness Center - Kiosk 37 Side A**
- Association of Obesity with Health Behaviors Among African Americans in the “Buckle” of the Stroke Belt
  - Brooke Davis, University of West Florida

**Wellness Center - Kiosk 37 Side B**
- Emerging Barriers & Concerns Regarding Healthcare Among African Americans
  - Madeline Tenorl, Weber State University

**Wellness Center - Kiosk 45 Side B**
- “Focusing” on Your ADHD Patient
  - Sarah Bauman, Westmoreland County Community College

**Information Technology**

**Wellness Center - Kiosk 4 Side A**
- A Collaborative Government-University-Industry Model for a STEM Career-Education Pathway: Phase III: The R&D of Forensic Analytics and Biometrics
  - Kathleen Brown, University of Central Oklahoma
STUDENT POSTER SESSION 11 - SAT 9:45AM-10:45AM

Wellness Center - Kiosk 4 Side C
Using Text Analytics to Predict Optimal Pairing of Actors for Movies
Tyler Phillips, Minnesota State University, Mankato

KINESIOLOGY & EXERCISE SCIENCE
Wellness Center - Kiosk 5 Side A
Investigating the Relationship Between Heart Rate Variability (HRV) and Anxiety in Undergraduate Students Through Music Intervention
Annalice Tolley, Elon University

Wellness Center - Kiosk 5 Side B
Relationship Between Depressive Symptoms and Activities of Daily Living in Older Adults
Evelyne Guay, Iowa State University

Wellness Center - Kiosk 5 Side C
Lactate Clearance in Division II Cross Country Runners
Parker Marson, Western Oregon University

LAW & LEGAL STUDIES
Wellness Center - Kiosk 12 Side C
The United States of America: An International Perspective on Criminal Prosecution and Involvement in Criminal Courts
Allison Norder, University of Minnesota, Twin Cities

MANAGEMENT
Wellness Center - Kiosk 33 Side A
Welfare Improvements for Free-Roaming Cats
Ashley Gapinski, University of Wisconsin - River Falls

MARKETING
Wellness Center - Kiosk 33 Side B
Pokemon GO and Super Mario Run: Brand Extensions in the Mobile Video Game Market and the Impact of Brand Dilution
Carolina Cruz, University of Texas at San Antonio

Wellness Center - Kiosk 33 Side C
Social Media and the Youth Vote
Genevieve Kurttz, Salisbury University

MATHEMATICS
Wellness Center - Kiosk 8 Side A
Dynamical Curves Over Finite Fields and Preperiodic Zeta Functions
Mark Poston, Montana State University Bozeman

Wellness Center - Kiosk 8 Side B
The Community Ecology of the Music Canon
Hannah Waddel, University of Utah

Wellness Center - Kiosk 8 Side C
Updating Literacy Estimates in the Oklahoma City Metro
Olivia Campos, University of Central Oklahoma

Wellness Center - Kiosk 40 Side A
Exploring the Use of Predictive Analytics in Banking and Finance Decision Making
Melanie Tummino, Bridgewater State University

Wellness Center - Kiosk 40 Side B
Graph Pebbling: Doppelgangers and Lemke Graphs
Mark Powers, Hope College

MICROBIOLOGY & IMMUNOLOGY
Wellness Center - Kiosk 30 Side A
Bacteriocin Production by Bio-protective LAB Cultures That Inhibit Lactobacillus wasathecensis
Sophie Overbeck, Weber State University

Wellness Center - Kiosk 30 Side B
Determining the Biofilm-Forming Capabilities of Wild-Type Escherichia coli O157:H7 Isolates
Carolina Cruz, University of Texas at San Antonio

Wellness Center - Kiosk 30 Side C
The Histoplasma Capsulatum DNA Damage Response Protein, DDR48, Is Required for Resistance to Antifungal Drugs
Gabriella Reyes, University of Southern Mississippi

Wellness Center - Kiosk 51 Side B
Elimination of Antibiotic Resistant Klebsiella pneumoniae Using CRISPR-Cas9 System
Erin May, Weber State University

Wellness Center - Kiosk 51 Side C
Role of Interleukin-1 Signaling in HNSCC
Kenley Miller, San Jacinto College

NEUROSCIENCE
Wellness Center - Kiosk 53 Side B
Tracking Cell Lineages of Differentiated Progenitor Cells of the Embryonic Mouse Thalamus
Ellia Borgenheimer, University of Minnesota, Twin Cities

Wellness Center - Kiosk 53 Side C
Colocalization of Secernin-1 and Pathological Hallmarks of Alzheimer’s Disease
Sacha McElligott, New York University

Wellness Center - Kiosk 55 Side A
Hippocampal Proper and Subfield Volumes Correlate with Spatial Navigation Ability in a Developing Population
Sanaya Isani, Wayne State University

Wellness Center - Kiosk 55 Side B
Investigating the Neural Basis of Aesthetic Pleasure in Reading
Benjamin Horne, Michigan State University

Wellness Center - Kiosk 55 Side C
The Histoplasma Capsulatum DNA Damage Response Protein, DDR48, Is Required for Resistance to Antifungal Drugs
Gabriella Reyes, University of Southern Mississippi

Wellness Center - Kiosk 23 Side A
A Systematic Review of Maternal Provision of Milk for Hospitalized Very Low Birthweight Infants
Blair Vanderkin, Hope College

Wellness Center - Kiosk 23 Side B
Confidence in CPR Skills and Education in Pre-Licensure Nursing and Athletic Training Students
Cassandra Smith, Gustavus Adolphus College

Wellness Center - Kiosk 34 Side A
Increasing Human Papillomavirus Vaccination Rates in College Students
Ashley Miner, University of Central Oklahoma

Wellness Center - Kiosk 34 Side B
Patient Comfort and Pain Control in the Burn Unit
MaryLynn Hoffman, University of South Alabama

Wellness Center - Kiosk 35 Side A
Pediatric Hospice Care: The Effects of an Educational Program for Pediatric Hematology and Oncology Nurses on End-Of-Life Services
Madeline Erickson, University of South Alabama

Recovered from Cattle Operations
Morgan Sarcher, Oklahoma State University

Wellness Center - Kiosk 30 Side C
The Histoplasma Capsulatum DNA Damage Response Protein, DDR48, Is Required for Resistance to Antifungal Drugs
Gabriella Reyes, University of Southern Mississippi

Wellness Center - Kiosk 51 Side C
Role of Interleukin-1 Signaling in HNSCC
Kenley Miller, San Jacinto College

Wellness Center - Kiosk 34 Side A
Increasing Human Papillomavirus Vaccination Rates in College Students
Ashley Miner, University of Central Oklahoma

Wellness Center - Kiosk 34 Side B
Patient Comfort and Pain Control in the Burn Unit
MaryLynn Hoffman, University of South Alabama

Wellness Center - Kiosk 35 Side A
Pediatric Hospice Care: The Effects of an Educational Program for Pediatric Hematology and Oncology Nurses on End-Of-Life Services
Madeline Erickson, University of South Alabama
<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Location</th>
<th>Presenter</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Wellness Center - Kiosk 35 Side B</strong></td>
<td>Therapeutic Hypothermia-Quality of Life</td>
<td>Kiosk 35 Side B</td>
<td>Tracey Farris, Jacksonville University</td>
</tr>
<tr>
<td><strong>Wellness Center - Kiosk 35 Side C</strong></td>
<td>Perceptions of Complications Including Reproductive Health Problems Among Adolescents and Young Adult Females with Type 1 Diabetes (T1D)</td>
<td>Kiosk 35 Side C</td>
<td>Nicole Chaszcze, University of Pittsburgh School of Nursing</td>
</tr>
<tr>
<td><strong>Wellness Center - Kiosk 56 Side B</strong></td>
<td>Applying the Social Readjustment Rating Scale (SRRS) to Nursing Simulations</td>
<td>Kiosk 56 Side B</td>
<td>Megan Hossler, University of West Florida</td>
</tr>
<tr>
<td><strong>Wellness Center - Kiosk 56 Side C</strong></td>
<td>Undergraduate Nursing Students Competencies on Providing Spiritual Care</td>
<td>Kiosk 56 Side C</td>
<td>Emily Holmes, Gustavus Adolphus College</td>
</tr>
<tr>
<td><strong>Wellness Center - Kiosk 61 Side A</strong></td>
<td>Partisan News Media and Growing Polarization in Congress</td>
<td>Kiosk 61 Side A</td>
<td>Tatijana Woodhouse, Cameron University</td>
</tr>
<tr>
<td><strong>Wellness Center - Kiosk 61 Side B</strong></td>
<td>Forming a Digital Archive of Rare Historical Bhutanese Documents</td>
<td>Kiosk 61 Side B</td>
<td>Matt Carey, University of Oklahoma Norman Campus</td>
</tr>
<tr>
<td><strong>Wellness Center - Kiosk 11 Side A</strong></td>
<td>Facebook: a Self-Esteem Builder or Destroyer? Exploring the Relationship Between Social Media and Self-esteem</td>
<td>Kiosk 11 Side A</td>
<td>Elizabeth Gallinari, Bridgewater State University</td>
</tr>
<tr>
<td><strong>Wellness Center - Kiosk 11 Side B</strong></td>
<td>Language of Music’s Lyrics Has No Effect on Student’s Academic Performance</td>
<td>Kiosk 11 Side B</td>
<td>Natasha Kamysz, Elmhurst College</td>
</tr>
<tr>
<td><strong>Wellness Center - Kiosk 43 Side A</strong></td>
<td>Firearms and Film Genre Choice</td>
<td>Kiosk 43 Side A</td>
<td>Charles Naff III, University of Memphis- Lambuth</td>
</tr>
<tr>
<td><strong>Wellness Center - Kiosk 44 Side A</strong></td>
<td>Emotional Intelligence and Religiosity</td>
<td>Kiosk 44 Side A</td>
<td>Colin Turpin, University of Central Oklahoma</td>
</tr>
<tr>
<td><strong>Wellness Center - Kiosk 44 Side B</strong></td>
<td>Factors Involved in Reward Dependence and Marijuana Use in College Students</td>
<td>Kiosk 44 Side B</td>
<td>Ogechukwu Otiju, Georgia Gwinnett College</td>
</tr>
<tr>
<td><strong>Wellness Center - Kiosk 53 Side A</strong></td>
<td>Writing Intervention</td>
<td>Kiosk 53 Side A</td>
<td>Shelby Vukich, Minnesota State University, Mankato</td>
</tr>
<tr>
<td><strong>Wellness Center - Kiosk 58 Side A</strong></td>
<td>Sexual Assault and the Longevity of Relationships</td>
<td>Kiosk 58 Side A</td>
<td>Jaely Deleon, University of Central Oklahoma</td>
</tr>
<tr>
<td><strong>Wellness Center - Kiosk 58 Side B</strong></td>
<td>Influence of the Colors Red and Black on Perceived Attraction and Aggression</td>
<td>Kiosk 58 Side B</td>
<td>Courtney Clark, University of Minnesota, Duluth</td>
</tr>
<tr>
<td><strong>Wellness Center - Kiosk 59 Side A</strong></td>
<td>Size Constancy in Virtual Reality</td>
<td>Kiosk 59 Side A</td>
<td>Anne Loeliger, Susquehanna University</td>
</tr>
<tr>
<td><strong>Wellness Center - Kiosk 59 Side B</strong></td>
<td>The Effect of Off-Topic Activities in Class on Sleepiness Level and Learning Performance During Lectures</td>
<td>Kiosk 59 Side B</td>
<td>Katerina Zatopkova, University of West Florida</td>
</tr>
<tr>
<td><strong>Wellness Center - Kiosk 59 Side C</strong></td>
<td>The Influence of Grit and Neuroticism on Adjustment to Adverse Childhood Experiences</td>
<td>Kiosk 59 Side C</td>
<td>Chandler McDaniel, Oklahoma State University</td>
</tr>
<tr>
<td><strong>Wellness Center - Kiosk 9 Side B</strong></td>
<td>Family Choices and Autism: An Examination of How Raising a Child with Autism Spectrum Disorder Impacts Family Completion</td>
<td>Kiosk 9 Side B</td>
<td>Megan Graves, Elon University</td>
</tr>
<tr>
<td><strong>Wellness Center - Kiosk 9 Side C</strong></td>
<td>The Exploration of Inter-ethnic Marriage and Marital Satisfaction</td>
<td>Kiosk 9 Side C</td>
<td>Mikayla Brush, Weber State University</td>
</tr>
<tr>
<td><strong>Wellness Center - Kiosk 25 Side C</strong></td>
<td>The Study of Moringa Oleifera Under Mars Lighting Conditions</td>
<td>Kiosk 25 Side C</td>
<td>Deanna DeMartino, Embry - Riddle Aeronautical University</td>
</tr>
</tbody>
</table>
We’re Looking Forward to Seeing You Next Year at KSU!

April 11-13, 2019

A comprehensive research institution located in north metro Atlanta.