## 55th Annual



# SATURDAY, APRIL 5 DOWNING STUDENT UNION

Western Kentucky University • Bowling Green, Kentucky

#### **Acknowledgements**

On behalf of the entire campus community, the WKU Student Scholar Showcase extends heartfelt appreciation and congratulations to the hundreds of students participating in this conference. Your talent, creativity, and dedication exemplify academic excellence and inspire those around you. We celebrate your achievements and commend your commitment to making the most of your educational journey at WKU.

We also recognize the invaluable contributions of WKU faculty and staff who mentor students in their research and creative projects. These mentors, listed alongside each student in the session details, provide essential guidance and support. Many also serve as Session Chairs, ensuring a seamless conference experience. Please see a special thanks to them on the following page.

Funding for the 55th Annual WKU Student Scholar Showcase was generously provided by the Office of the Provost and Vice President for Academic Affairs and the Office of Research and Creative Activity. The WKU Graduate School supports graduate students through research grants, some of which have directly benefited today's presenters. Additionally, undergraduate students can access funding opportunities, including the Faculty-Undergraduate Student Engagement (FUSE) grants, initiated in 2012, to foster intellectual development and active engagement in research, creative, and scholarly activities.

We extend our gratitude to Alicia Carter, Tommy Newton, Aurelia Spaulding, Scott French, Marcus Dukes, Eliza Marsh, Clinton Lewis, and the WKU Office of Communications and Marketing team for their vital assistance with conference artwork, electronic advertising, photography, and media outreach.

Special thanks to Diana Keeling for expert database support.

WKU faculty members Dr. Tong Wu, Dr. Daniel Keller, and Ashley Orehek Rossi provided informative professional development workshops to prepare students for this event. The Downing Student Union team, led by Meygan Oliver, played a crucial role in conference logistics, with WKU Dining and WKU Catering ensuring refreshments and meals.

The WKU Student Scholar Showcase Council organizes this annual conference, with representation from Academic Colleges, Communications and Marketing, Downing Student Union, University Libraries, Gatton Academy, and the Office of Research and Creative Activity. The 2024-2025 Council members include Dr. Jeffrey Budziak, Dr. Jenni Redifer, Dr. Ritchie Taylor, Dr. Cathleen Webb, Dr. Lily Zhuhadar, Andrew Adler, Alicia Carter, Dr. Samuel Earls, Ryanne Gregory, and Meygan Oliver.

Finally, we sincerely appreciate the students, faculty, staff, community members, friends, and family who contributed to the success of this interdisciplinary conference. Your support makes this event possible.

#### **Session Chairs Special Thanks**

We extend our sincere gratitude to the WKU faculty and staff who served as Session Chairs at this year's conference. Their time and dedication were instrumental in ensuring a successful event. Many have generously volunteered for years, even decades, and we deeply appreciate their continued support. We welcome and are grateful for the new faces as well!

Dr. Lester Archer, School of Leadership and Professional Studies

Dr. Simran Banga, Department of Biology

Catherine Cornwell, Department of Chemistry and Biochemistry

Dr. Thad Crews, Department of Analytics and Information Systems

Susannde Vries, Libraries

Dr. Patricia Desrosiers, Department of Social Work

Dan Forrest, Libraries

Dr. Nahid Gani, Department of Earth, Environmental, and Atmospheric Sciences

Margaret Glaser, Philanthropy & Alumni Engagement

Dr. Melinda Grimsley, Office of Scholar Development

Dr. Sungjin Im, Department of Psychology

Jae Kim, Department of Public Health

Dr. Rodney King, Mahurin Honors College

April McCauley, Center for Innovative Teaching and Learning

Dr. Jeffrey Miner, Department of History

Dr. Matthew Nee, Department of Chemistry

Ashley Orehek, Libraries

Dr. Sarah Scali, School of Kinesiology, Recreation & Sport

Todd Sequin, Libraries

Bradley Smith, Office of Scholar Development

Dr. Robin Valenzuela, Department of Folk Studies & Anthropology

Dr. Huanjing Wang, School of Engineering and Applied Sciences

Dr. Adam West, Department of Applied Human Sciences

Dr. Tong Wu, Department of Analytics and Information Systems

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#### **Conference Schedule**

#### **Student and Session Chairs Registration**

8:30 AM - 3:30 PM

- Location: First Floor Lobby
- Ongoing throughout the day
- Please register at least 30 minutes before your session begins.

#### **Morning Sessions**

9:30 AM - 11:00 AM

- Oral Papers and Performances: Rooms 3003, 3005, 3007, 3023, 3024,3025
- Posters: First and Second Floor Atriums
  - o Presenters are asked to remove their posters at the end of the session.

#### **Lunch Break**

11:00 AM - 12:00 PM

- Complimentary lunch tickets will be provided to presenters, co-presenters, and Session Chairs who requested lunch within the Showcase portal prior to event day.
- Please pick up your lunch ticket with your nametag at the registration table.

#### **Midday Sessions**

12:15 PM - 1:45 PM

- Oral Papers and Performances: Rooms 3003, 3005, 3007, 3023, 3024,3025
- Posters: First and Second Floor Atriums
  - o Presenters are asked to remove their posters at the end of the session.

#### **Afternoon Sessions**

2:00 PM - 3:30 PM

- Oral Papers and Performances: Rooms 3003, 3005, 3007, 3023, 3024,3025
- **Posters:** First and Second Floor Atriums
  - o Presenters are asked to remove their posters at the end of the session.

#### **Conference Overview**

The 55th Annual WKU Student Scholar Showcase proudly presents 233 graduate and undergraduate research projects, including 149 posters/exhibits and 84 oral presentations/performances. The conference highlights a broad range of topics, with student participants from 36 WKU programs across all colleges, reflecting academic and creative excellence.

- 1. Agriculture and Food Science
- 2. Allied Health
- 3. Applied Human Sciences
- 4. Art
- 5. Chemistry and Biochemistry
- 6. Business Sciences
- 7. Communication
- 8. Communication Sciences and Disorders
- 9. Computer Information Systems
- 10. Counseling and Student Affairs
- 11. Earth, Environmental, and Atmospheric Sciences
- 12. Economics
- 13. Engineering and Applied Sciences
- 14. English
- 15. Family and Consumer Sciences
- 16. Folk Studies and Anthropology
- 17. Gatton Academy of Math and Science
- 18. Health Sciences
- 19. History
- 20. Information Systems
- 21. Interdisciplinary Studies
- 22. Journalism and Broadcasting
- 23. Kinesiology, Recreation and Sport
- 24. Mathematics
- 25. Music
- 26. Nursing
- 27. Physical Therapy
- 28. Physics and Astronomy
- 29. Political Science
- 30. Psychological Sciences
- 31. Psychology
- 32. Public Health
- 33. Social Work
- 34. Sociology
- 35. Teacher Education
- 36. Theatre and Dance

## Oral Presentations and Performances Morning Sessions (9:30 am - 11:00 am)

Rooms 3003, 3005, 3007, 3023, 3024, 3025

#### GRADUATE PRESENTATIONS with SESSION CHAIR: Simran Banga & Margaret Glaser

Room #				MENTOR	MENTOR
3003	ABSTRACT TITLE	FIRST NAME	LAST NAME	FIRST	LAST
3003				NAME	NAME
	Quantitative Analysis of Antimicrobial B-				
9:30 AM	Defensin Proteins in Bovine Milk Using Liquid				
	Chromatography-Mass Spectrometry	Annie	Arugha	Eric	Conte
	A Phylogeographic Study of The Kentucky				
9:45 AM	Endemic Cave Beetle Neaphaenops				
	Tellkampfii Erichson (1844)	Mahamad	Miya	Keith	Philips
	The Effects of Two Common Herbicides on				
10:00 AM	the Growth and Development of Two Anuran				
10.00 AIVI	Species (boreorana Sylvatica and Dryophytes				
	Chrysoscelis)	Jerica	Eaton	Jarrett	Johnson
10:15 AM	Ceg10 Legionella Pneumophila Effector				
10.15 AIVI	Protein Modulate Host Lipid Metabolism	Emmanuella	Ofoka	Simran	Banga
10:30 AM	Analysis of Computational Approaches to				
10.30 AIVI	Cognitive Diagnosis	Andrew	Toussaint	Huanjing	Wang

#### GRADUATE PRESENTATIONS with SESSION CHAIR: Matthew Nee & Susann DeVries

Room #				MENTOR	MENTOR
3005	ABSTRACT TITLE	FIRST NAME	LAST NAME	FIRST	LAST
3005				NAME	NAME
	Influence of Substrate Temperature on the				
9:30 AM	Morphology, Crystallinity, and Growth				
9.30 AIVI	Dynamics of Zr Thin Films Deposited via				
	Pulsed Laser Deposition	Berdimyrat	Annamuradov	Ali	Oguz Er
	Enhancing Photodynamic Therapy: Reserpine-				
9:45 AM	mediated Efflux Pump Inhibition for Improved				
9.45 AIVI	Pathogen Deactivation with Methylene Blue				
	and Nanoparticles	Begench	Gurbandurdyyev	Ali	Oguz Er
	Understanding the Behavioral Variation of				
10:00 AM	Asian Elephants (Elephas maximus) as an				
	Indicator of Human Elephant Conflict	Julia	Brzezicki	Bruce	Schulte
	Preliminary Investigation on Stream Flow				
10:15 AM	Variations in the Black River Complex,				
	Mammoth Cave	Ljubomir	Risteski	Patricia	Kambesis
	A Comprehensive Study of How Indirect and				
10:30 AM	Direct Market Opportunities Influence				
10:20 AM	Consumer Interest for Locally Produced				
	Agricultural Products	MaKayla	Burrell	Dominique	Gumirakiza

Morning Sessions Continued
GRADUATE PRESENTATIONS with SESSION CHAIR: Sarah Scali

Room #				MENTOR	MENTOR
3007	ABSTRACT TITLE	FIRST NAME	LAST NAME	FIRST	LAST
				NAME	NAME
	Investigating Groundwater Dynamics and				
9:30 AM	Aquifer Recharge Patterns in Barbados Using				
	Forensic Hydrology	Benjamin	Hauschild	Jason	Polk
	Prevalence And Source Tracking of				
9:45 AM	Perfluoroalkyl and Polyfluoroalkyl (PFAS)				
9.45 AIVI	Substances in Urban Karst Groundwater		Hendrickson-		
	Systems	Gracie	Brown	Jason	Polk
	Deep Learning Techniques for Better				
10.00 484	Geobody Delineation from 3D Seismic Data:				
10:00 AM	A Case Study of the Northern Gulf of Mexico				
	Basin, USA	Victor	Aham	Royhan	Gani
	Limestone Microscopy: A Case Study in the				
40.45.444	Optical Validation of Field Investigations in				
10:15 AM	the Olmstead Quadrangle, Todd and Logan				
	Counties, KY	John	Lunday	Nahid D.	Gani
	Leveraging Deep Learning and Remote		-		
40.00.444	Sensing-based Geomorphology for Flood				
10:30 AM	Susceptibility Mapping in The Appalachian				
	Mountain Regions of KY	Samir	Pahari	Nahid D.	Gani

#### GRADUATE PRESENTATIONS with SESSION CHAIR: Tong Wu

Room #				MENTOR	MENTOR
3023	ABSTRACT TITLE	FIRST NAME	LAST NAME	FIRST	LAST
3023				NAME	NAME
	Mathematics Autobiographies by Pre-service				
9:30 AM	Elementary Teachers: Past Experiences and				
	Future Hopes	Piper	Scannell	Janet	Tassell
	Analyzing ALU and IO Instruction				
9:45 AM	Distribution in Deep Learning on a Single				
	CPU-GPU System	Michael	Seavers	Qi	Li
	English Phrasal Verb Difficulties Encountered				
10:00 AM	by International Students Attending				
10:00 AIVI	American Regional Universities				
		Nesma	Soliman	Trini	Stickle
	Flat Hats, Stephen Mather, and GS Scales:				
10:15 AM	Inducement Strategies in National Park				
	Service Training Documents	Rachel	Taylor	Jennifer	Mize Smith
10:30 AM	Student Workers' Experiences of New				
10.50 AIVI	Employee Socialization	Tanya	Prabhakar	Jennifer	Mize Smith

## Morning Sessions Continued UNDERGRADUATE PRESENTATIONS with SESSION CHAIR: Jeffrey Miner

Room # 3024	ABSTRACT TITLE	FIRST NAME	LAST NAME	MENTOR FIRST	MENTOR LAST
				NAME	NAME
	A Large and Local-scale Investigation of the				
9:30 AM	January 27-31, 2014 "snowpocalypse" In	_		_	_
	Atlanta, Ga	Alexis	Fugatt	Joshua	Durkee
	A Synoptic and Mesoscale Analysis of the				
9:45 AM	January 27-31, 2014 "snowpocalypse" in				
	Atlanta, Georgia	Alexis	Fugatt	Joshua	Durkee
		Vidhi	Grover		
10:00 AM	Carbon Storage in Old and New Growth Cloud	Alaina	Arrollo		
	Forests	Jaime	Mendez-Cano	Martin	Stone
		Himani	Gangumolu		
10.15 484		Lydia	Williams		
10:15 AM	Herbaceous Plant Diversity and the Effects of	Mitchell	Marcum		
	Forest Age	Adriana	Williams	Martin	Stone
10:30 AM	A large scale and local variable analysis of the				
	March 3-5, 2015, winter storm across	Ryan	Marcum	Joshua	Durkee
	Kentucky	-			
10:45 AM	Kentucky's Coldest Year: A Case Study of the				
	Causes and Impacts of KY's Coldest Year (1917)	Ryan	Marcum	Jerald	Brotzge

#### UNDERGRADUATE PRESENTATIONS with SESSION CHAIR: Rodney King

Room #				MENTOR	MENTOR
	ABSTRACT TITLE	FIRST NAME	LAST NAME	FIRST	LAST
3025				NAME	NAME
	Impact of Basic Physic Skills Quizzes on				
9:30 AM	Student Success in an Introductory Physics				
	Course	Nathaniel	Egan	Scott	Bonham
9:45 AM	Formation of Picosecond Laser-induced				
9.45 AIVI	Periodic Surface Structures on Steel	Alper	Er	Ali	Oguz Er
10:00 AM	Development of the Gamma Array to				
10:00 AIVI	Measure Angular Correlation of Gamma Rays	Lincoln	Potts	Ivan	Novikov
	Using Aquatic Macroinvertebrates as	Jonathan	Philpot		
10:15 AM	Bioindicators to Determine the Effect of	Alrose	Noronha		
10:15 Alvi	Location on Water Quality in the Costa Rican	Rowan	Bailey		
	Cloud Forest	Logan	Potts	Martin	Stone
10:30 AM	Applying Gaussian Tools for the Study of	Luna	Asbell		
10:30 AIVI	Physical and Organic Chemistry	Savannah	Isaacs	Jeremy	Maddox

## **Oral Presentations and Performances** Midday Sessions (12:15 pm - 1:45 pm) Rooms 3003, 3005, 3007, 3023, 3024, 3025

UNDERGRADUATE ORAL PRESENTATIONS with SESSION CHAIR: Simran Banga

10.120,1120,11	9 1111611 92	<u> </u>	UNDERGRADUATE ORAL FRESENTATIONS WITH SESSION CHAIR. SIMILAN BANGA					
	FIRST		MENTOR	MENTOR				
ABSTRACT TITLE		LAST NAME	FIRST	LAST				
	NAIVIE		NAME	NAME				
Survey of Highway-railroad Grade								
Crossing Safety and Challenges in the	Mustafa	Abdekhalek						
State of Kentucky	Salim	Al Adawi	Kirolos	Haleem				
Abstract	Isabel	Concannon	Shahnaz	Aly				
Investigating Crash Contributing Factors								
at Public Highway-railroad Grade	Alrose	Noronha						
Crossings in Kentucky	Trenten	Cissell	Kirolos	Haleem				
Analysis of Distracted Driving Crashes								
Among At-fault Commercial Motor	Cassidy	Schrock						
Vehicles in Kentucky Using Multiple	Shamar	Crump						
Techniques	Luke	Southard	Kirolos	Haleem				
Brandscaping and Sustainability: The								
Use of Heritage Sites as Venues in								
the Paris 2024 Olympics	Katelin	Rutledge	Margaret	Gripshover				
	ABSTRACT TITLE  Survey of Highway-railroad Grade Crossing Safety and Challenges in the State of Kentucky  Abstract Investigating Crash Contributing Factors at Public Highway-railroad Grade Crossings in Kentucky Analysis of Distracted Driving Crashes Among At-fault Commercial Motor Vehicles in Kentucky Using Multiple Techniques  Brandscaping and Sustainability: The Use of Heritage Sites as Venues in	ABSTRACT TITLE  Survey of Highway-railroad Grade Crossing Safety and Challenges in the State of Kentucky  Abstract  Investigating Crash Contributing Factors at Public Highway-railroad Grade Crossings in Kentucky  Analysis of Distracted Driving Crashes Among At-fault Commercial Motor Vehicles in Kentucky Using Multiple Techniques  Brandscaping and Sustainability: The Use of Heritage Sites as Venues in	ABSTRACT TITLE  Survey of Highway-railroad Grade Crossing Safety and Challenges in the State of Kentucky  Abstract  Investigating Crash Contributing Factors at Public Highway-railroad Grade Crossings in Kentucky  Analysis of Distracted Driving Crashes Among At-fault Commercial Motor Vehicles in Kentucky Using Multiple Techniques  Brandscaping and Sustainability: The Use of Heritage Sites as Venues in  Last Name  Abdekhalek Al Adawi  Aladwi  Concannon  Alrose Noronha Cissell  Cassidy Schrock Crump Southard	ABSTRACT TITLE  Survey of Highway-railroad Grade Crossing Safety and Challenges in the State of Kentucky  Abstract  Investigating Crash Contributing Factors at Public Highway-railroad Grade Crossings in Kentucky  Alose Trenten  Crossings in Kentucky  Alose Alrose Alrose Trenten  Cissell  Kirolos  Analysis of Distracted Driving Crashes Among At-fault Commercial Motor Vehicles in Kentucky Using Multiple Techniques  Brandscaping and Sustainability: The Use of Heritage Sites as Venues in				

#### UNDERGRADUATE ORAL PRESENTATIONS with SESSION CHAIR: Matthew Nee

ROOM # 3005	ABSTRACT TITLE	FIRST NAME	LAST NAME	MENTOR FIRST NAME	MENTOR LAST NAME
12:15 PM	Characterization of the Telomeric DNA				
	Damage Response Pathway	Grayson	Duvall	Jason	Stewart
	Synthesis of Polymer Beads with				
12:30 PM	Incorporated Photocatalyst for Water				
	Remediation	Kellen	Patterson	Matthew	Nee
12:45 PM	Effects of Controlled Fires on Ruminant				
12:45 PIVI	Nutrition in South Africa	Promise	Willhite	Michael	Stokes
	Analyzing the Function of a				
1:00 PM	Bacteriophage Gene Toxic to				
	Mycobacterium Smegmatis	Ava	Blackledge	Rodney	King

## Midday Sessions Continued

#### UNDERGRADUATE ORAL PRESENTATIONS with SESSION CHAIR: Sarah Scali

ROOM # 3007	ABSTRACT TITLE	FIRST LAST NAME		MENTOR FIRST NAME	MENTOR LAST NAME
12:15 PM	Computational Modeling of Free Association with Word2Vec and Frequency Analysis	Amogh	Patnaik	Lance	Hahn
12:30 PM	Proficiency and Positivity: Investigating Learner Affect Toward L2 Instructional Methods, Learner Goals, And L2 Success	Natalie	Spiva	Trini	Stickle
12:45 PM	Co-attention and the Autism Spectrum	Lara Sanam	Jaber Krishnani Gordon		Baylis
1:00 PM	Are You Looking Where I'm Looking? A study of Co-attention and Emotion	Sanam Lara	Krishnani Jaber	Gordon	Baylis
1:15 PM	The Impact of Prenatal Yoga on Hip Mobility and Delivery Outcomes	Zoe	Avery	Rachel	Tinius

#### UNDERGRADUATE ORAL PRESENTATIONS with SESSION CHAIR: Tong Wu

					_
ROOM # 3023	ABSTRACT TITLE	FIRST NAME	LAST NAME	MENTOR FIRST NAME	MENTOR LAST NAME
2 00 014	An Atmospheric Review of July 6, 2016,				
2:00 PM	Major Flash Flooding over the Western Kentucky Region	Evan	Kidd	Joshua	Durkee
	Examination of the Large-scale and	Evaii	Ridd	JOSHUU	Darkee
2:15 PM	Local-scale Features that Contributed to				
	the Spring Hill, TN Tornado Event	Sarah	McClanahan	Joshua	Durkee
	Examining Local-Scale Circulation				
2:30 PM	Features that Contributed to the May				
	30th, 2024, EF3 Tornado in Midland, TX	Thomas	Payette	Joshua	Durkee
	A Case-Study Investigation of the Large-				
	Scale and Local Atmospheric Forcing				
2:45 PM	Responsible for the January 4-5th, 2014,				
	Winter Storm and Arctic Air Outbreak				
	Across the Ohio River Valley.	Jalyn	Radford	Joshua	Durkee
	A Large-to-Regional Scale Case Study				
3:00 PM	Investigation of the May 26th-27th,				
3.03 1 141	2024, Severe Weather Across the Mid-				
	South	Nathan	Renner	Joshua	Durkee

## Midday Sessions Continued

#### UNDERGRADUATE VIDEOS with SESSION CHAIR: Jeffrey Miner

ROOM # 3024	ABSTRACT TITLE	FIRST NAME	LAST NAME	MENTOR FIRST NAME	MENTOR LAST NAME
12:15 PM		Christian	Colvin		
12:15 PIVI	The Testimony of Sir Gareth	Katherine	Thompson	Sara	Thomason
12:30 PM	Wya? (Where You At?)	Cristian	Pena	Shaina	Feldman
		Jonah	Smith		
12:45 PM		Wade	Yates		
12:45 PIVI		Alyssa	Goebel		
	The Sound of Love	Caleb	Evans	Shaina	Feldman

#### UNDERGRADUATE PERFORMANCES with SESSION CHAIR: Rodney King

ROOM #	ABSTRACT TITLE	FIRST NAME	LAST NAME	MENTOR FIRST	MENTOR LAST
0020				NAME	NAME
12:15 PM	Emotional Exposure of Method Acting	Bailey	Bryant	Tiffany	Bostic-
12.15 PIVI					Brown
12:30 PM	Promoting Black and African Classical				
12:30 PIVI	Composers in Vocal Studies	Ashleigh	Chapman	Tiffany	Brown
	Harmonizing Artistry: The Interplay of Gaga				
12:45 PM	Movement and Classical Ballet in Dance				
	Performance and Choreography	Lindy	Fischer	Meghen	McKinley
	Pas de Deux Past and Present: Examining				
1:00 PM	the Future of Partnering Work in the Study				
1.00 PIVI	of Teaching and Performance of				
	Professional Ballet.	Madelyn	Groth	Anna	Patsfall

## **Oral Presentations and Performances** Afternoon Sessions (2:00 pm - 3:30 pm) Rooms 3003, 3005, 3007, 3023, 3024, 3025

UNDERGRADUATE ORAL PRESENTATIONS with SESSION CHAIR: Simran Banga

ROOM #		FIRST		MENTOR	MENTOR
3003	ABSTRACT TITLE	NAME	LAST NAME	FIRST	LAST
3003		IVAIVIE		NAME	NAME
	Quantitative Analysis of Geochemistry				
2:00 PM	and Flow Dynamics in the Great Onyx				
2.00 PIVI	Groundwater Basin, Mammoth Cave				
	National Park, Kentucky	Daniel	Thelen	Lee	Bledsoe
2:15 PM	3D Mineralogy: Teaching in New				
2.15 PIVI	Dimension of Learning	Mykah	Carden	Nahid	Gani
	Mapping Karst and Slope Hazards in				
2:30 PM	Pulaski County, Kentucky Using High-				
	resolution Lidar and Petrographic Analysis	Barrett	Gibbs	Nahid	Gani
	Geology In Flight: Unveiling WKU's				
2:45 PM	Campus Karren Through Drone	Charlie	Lowman		
	Technology	Maysn	Hughes	Royhan	Gani
	Windows into the Past: Fossil				
3:00 PM	Identification and Classification Through				
	Thin Section Microscopy	Dayvon	Woodard	Nahid	Gani

UNDERGRADUATE ORAL PRESENTATIONS with SESSION CHAIR: Matthew Nee

ROOM # 3005	ABSTRACT TITLE	FIRST NAME	LAST NAME	MENTOR FIRST NAME	MENTOR LAST NAME
2:00 PM	Enhancing Community Recycling Awareness and Participation in Prospect,	Morgan	Adamson		
2.00 PIVI	KY, USA	Katelin	Rutledge	Jason	Polk
	Karst Groundwater Flow Profile for				
2:15 PM	Jennings Creek, Kentucky for Flood	Noah	Jennings		
	Management	Logan	Sileo	Jason	Polk
2:30 PM	Urban Karst Flood Hazard Mitigation at				
2.50 PIVI	Fairview Plaza, Bowling Green, KY, USA	Quade	Miles	Jason	Polk
2:45 PM	Spatial Analysis of Rain-on-snow Ablation				
2.45 PIVI	Events in the United States	Spencer	Chafin	Zachary	Suriano

#### **Afternoon Sessions Continued**

#### UNDERGRADUATE ORAL PRESENTATIONS with SESSION CHAIR: Sarah Scali

ROOM # 3007	ABSTRACT TITLE	FIRST NAME	LAST NAME	MENTOR FIRST NAME	MENTOR LAST NAME
	Large and regional-scale analysis of the				
2:00 PM	April 2nd, 2024 severe weather outbreak	T	Duamahlatt	Lankiia	Divilia
	across the Ohio Valley	Trevor	Bramblett	Joshua	Durkee
	The June 2013 Yarnell Mountain, Arizona				
2:15 PM	wildfire and its upper-atmospheric				
	meteorological causes	Wyatt	Crutcher	Joshua	Durkee
	A Large and Small-Scale Evaluation of the				
2:30 PM	Factors that Led to the June 29, 2012,				
2.30 PIVI	Derecho Across the Midwest and Mid-				
	Atlantic	Aaron	Derrick	Joshua	Durkee
	An Analysis of the Multiscale				
2:45 004	Atmospheric Contributions to the May				
2:45 PM	23, 2024, Eldorado, Oklahoma EF2				
	Tornado Event	Harmony	Guercio	Joshua	Durkee
	A Meteorological Breakdown of a				
3:00 PM	Notable High Wind Event Across the Ohio				
	Valley Region	August	Hug	Joshua	Durkee

#### UNDERGRADUATE ORAL PRESENTATIONS with SESSION CHAIR: Tong Wu

ROOM# 3023	ABSTRACT TITLE	FIRST NAME	LAST NAME	MENTOR FIRST NAME	MENTOR LAST NAME
2:00 PM	Heroes or Tyrants? Using the Leader- ship of Chiang Kai-shek to Reexamine				
	the Legacy of Abraham Lincoln	Edward	Woolery	David	Serafini
2:15 PM	Optically Remaining: Residues of Life	Ally	Adams	Yvonne	Petkus
2:30 PM	Art Appropriation within Europe	Haley	Duarte	Eric	Reed
2:45 PM	Effects of Regulations on Digital Asset Prices: Evidence from The Counter-strike Game Series	John	Stewart	Stephen	Locke
3:00 PM	Clarity of the Source of Information in Attorney Advertisements and Effects on Risk Beliefs about Pharmaceuticals	Caleb	Neitzel	Jacob	Byl

#### **Afternoon Sessions Continued**

UNDERGRADUATE ORAL PRESENTATIONS with SESSION CHAIR: Jeffrey Miner

ROOM # 3024	ABSTRACT TITLE	FIRST NAME	LAST NAME	MENTOR FIRST NAME	MENTOR LAST NAME
2:00 PM	Analysis of the Christmas Blizzard across the central Great Plains during December 23-27, 2009	Donovan	Roach	Joshua	Durkee
2:15 PM	Analyzing the Large-to-Regional Scale Influences that Produced Tornadic Thunderstorms in the Southern Great Plains on May 25th, 2024	Samantha	Taylor	Joshua	Durkee
2:30 PM	An Examination of Atmospheric Features that Contributed to the Historic Ohio River Flood of 2011	Nick	Zrelak	Joshua	Durkee
2:45 PM	Performance Analysis of WRF-Hydro Parameterization Schemes in Eastern Kentucky	Jackson	Powers	Xingang	Fan

## UNDERGRADUATE ORAL PRESENTATIONS & PERFORMANCES with SESSION CHAIR: Rodney King

ROOM 3025	# ABSTRACT TITLE	FIRST NAME	LAST NAME	MENTOR FIRST NAME	MENTOR LAST NAME
2:00 PN	Comorbidity Differences Among Rural and Urban Osteoarthritis Patients	Alexandria	Anderson	Natalie	Mountjoy
2:15 PN	Impact of a Final Project in an Introductory Physics Course	Elena	Ley	Scott	Bonham
3:00 PN	Dental Health for Mental Wealth: A Comprehensive Analysis of The Underexplored Impact of Oral Health and Behaviors on Neurobiology and Psychological Well-Being	Brooke	Beck	David Amy	Ciochetty Brausch

## Posters - Morning Session (9:30 am - 11:00 am)

SESSION CHAIRS: Adam West, Ashley Orehek, Dan Forrest, Huanjing Wang, Todd Sequin, Melinda Grimsley, Patricia Desrosiers, Robin Valenzuela, Nahid Gani, April McCauley, Bradley Smith, Sungjin Im, Catherine Cornwell

#### DSU 1<sup>ST</sup> FLOOR

	DI TEOOR			MENTOR	MENTOR
BOARD	ABSTRACT TITLE	FIRST NAME	LAST NAME	FIRST	LAST
#				NAME	NAME
	Novel Diagnostic Application of				
1	Crispr-dcas9 And Graphene Oxide for				
_	Sensitive Antibiotic Resistance and				
	Genetic Disease Detection	Hosamulhaq	Brula	Kevin	Williams
	Synthesis of Silver Nanoparticles Via				
2	Laser Ablation in a Liquid Medium for				
_	Use in Photodynamic Therapy of	Carli	Street		
	Bacteria	Hadley	Whipple	Ali	Oguz Er
	Synthesis of Gold Nanoparticles Via				
3	Laser Ablation in A Liquid Medium				
	for Use in Photodynamic Therapy of	Hadley	Whipple		
	Bacteria	Carli	Street	Ali	Oguz Er
	Utilizing Spatial Transciptomics to				
4	Identify Molecular Mechanisms				
	Underlying Spinal Cord Regeneration	Cala	Maaday	Hilami	Vat-
	in the Larval Sea Lamprey  Development of Polystyrene Beads	Cole	Meador	Hilary	Katz
5	with Titanium Dioxide Photocatalyst				
	with ritalian bloxide rilotocatalyst	Zing	Hnem	Matthew	Nee
	Investigating the Interactions	J			
	Between Elm1 and Hsl7 in the				
6	Morphogenesis Checkpoint of				
	Saccharomyces Cerevisiae	Rachel	Foster	Joseph	Marquardt
7	Genetic Interactions between Ste20				
	and Elm1 Kinases Require Kinase	F	Thoma	laaaah	Manayandt
	Activity for Cell Morphogenesis	Emma	Thorn	Joseph	Marquardt
	Investigating the Ability of an				
8	Interspecies Gene to Rescue Shape				
	Control Defects in Budding Yeast	Amelia	Baker	Joseph	Marquardt
	Cell Shape Is Mediated by a Joint	7	24	3000	111011 4001 01
9	Effort between a Septin-associated				
	Kinase and Endocytic Protein	Presley	Neagle	Joseph	Marquardt
L					

10	Discovery and Analysis of				
10	Mycobacteriophage Kochu	Sophia	Thomas	Rodney	King
	Discovery, Characterization,				
11	Sequencing and Annotation of the				
	Novel Mycobacteriophage Xandras	Ashley	Gledhill	Rodney	King
12	Synthesis And Catalytic Studies of				
12	Metalloporphyrin Complexes	Zachary	Talmon	Rui	Zhang
13	Loss of Human CST Leads to	Colin	Loveless		
13	Increased Genome Instability	Steven	Reed	Jason	Stewert
	Exploring the Morphology of the				
14	Inner and Peripheral Ear of the				
14	Loricariid Catfish Pterygoplichthys				
	Pardalis	Mabel	Vilt	Michael	Smith
	Isolation And Analysis of				
15	Bacteriophages Princessmocha and	Sanam	Krishnani		
	Gangumolu	Himani	Gangumolu	Rodney	King
	Bacteriophage Gingery, a Novel				
16	Mycobacteriophage Isolated from				
	Icelandic Soil	Trisha	Chhabra	Rodney	King
	Effect of Photodynamic Treatment				
17	on Survival of Legionella				
	Pneumophila	Brandon	Brion	Simran	Banga
	Resolution of Temporomandibular				
18	Joint (TMJ) Sensitivity One Week				
	After Equine Dental Procedures	Savanna	Arnold	Debra	Shoulders

DSU 2<sup>ND</sup> FLOOR ...

Morning Poster Session Continued

BOARD #	ABSTRACT TITLE	FIRST NAME	LAST NAME	MENTOR FIRST NAME	MENTOR LAST NAME
19	Coordination of Cell Growth by Two Yeast Kinases to Control Cell Shape	Lilian	Branch	Joseph	Marquardt
20	Investigating Mechanisms of Polarisome Regulation by the Kinase Elm1	Jenson	Harner	Joseph	Marquardt
21	Gene Expression Profiling of Cathepsin L Regulated Genes in Drosophila melanogaster Wing Development	Rangana	Ratnayake	Ajay	Srivastava
22	Investigating the Signal Intensity of Two Fluorescence Markers in Relation to Proteins in the Morphogenesis Checkpoint in Yeast	Luke	Walker	Joseph	Marquardt
23	Analyzing Patterns of Genetic Structure in Leuctra Stoneflies	Andrew	Jackson	Jarrett	Johnson

	V-type ATPase's Role in Drosophila				
24	Melanogaster Air Sac Primordium				
	Development	Sydney	Putnam	Ajay	Srivastava
	Cell Shape Is a Coordinated Effort				
25	Between a Yeast Kinase and Cell Wall				
	Machinery in Saccharomyces Cerevisiae	Kaylee	Brannon	Joseph	Marquardt
26	Leaf Litter Invertebrate Diversity in	Lex	Patterson		51.11
	Cloudbridge Costa Rica	Kate	Hans	Keith	Philips
27	On the DNA Binding Properties of	Dalaant	D	Manda	\A/:II:
	Cisplatin and Its Analogs  Reactions of Guanine Nucleotides with	Robert	Purvis	Kevin	Williams
	Platinum (II) Complex Containing a				
28	Ligand That Can Switch Between				
	Bidentate and Tridentate Binding Mode	Loveth	Marcel	Kevin	Williams
	Using Guanine Derivatives to Ring-open	LOVELII	iviareer	Keviii	VVIIIIGIIIS
29	Platinum (III) Tridentate Ligands	Alexander	Bentley	Kevin	Williams
	Synthesis, Characterization, and				
30	Catalytic Study of Phthalocyanine-				
	manganese (III) Complexes	Candice	Schlabach	Rui	Zhang
	Understanding the Formation of				
31	Atmospheric Aerosols Using Molecular				
	Dynamics	Rebecca	Awe	Matthew	Nee
32	Three-dimensional Metal-organic				
32	Framework of Zinc(II) And Histidine	Ibrahim	Ali	Bangbo	Yan
	Distinguishing Between Flat Spectrum	Jo	Elmore		
33	Radio Quasars and BI Lacertae Objects	Frankie	Peak		
	Using Optical Variability	Andrea	Shaw	Michael	Carini
	Exploring the Role of Bingocize®:				
34	Workshops in Enhancing Health and	Kaithan	Crov	Mark	Cobofor
	Well-being in Older Adults Cannabidiol and Exercise: A Systematic	Kaitlyn	Gray	Mark	Schafer
35	Review	Abby	Brewer	Whitley	Stone
	Water Intake During Pregnancy Has a	Abby	Brewei	vviiitiey	Stone
36	Favorable Association with Infant				
	Anthropometrics	Gillian	Johnston	Rachel	Tinius
	Creation And Development of a	Dylan	Waldrop		735
	Modulation-based Simulation to Assist	Су	Whitler		
37	in Development of Clinical Reasoning	Mason	Kreilein		
	Skills and Confidence in First Year DPT	Benjamin	Bruckner	Anthony	Mancini
	Students with Specific Pathologies				
	Inter-rater Reliability of Human and				
38	Artificial Intelligence Assessment of	Hayden	Barkley		
30	Student Proficiency in Clinical	Austin	Woosley		
	Documentation	Caitlyn	Patterson	Ashton	McPherson
	Demystifying Assistive Devices for Older	Jared	Gobin		
39	Adults	Evan	Decker	-11	
		Sarah	O'Daniel	Elizabeth	Norris

	Level of Knowledge Among Doctor of Physical Therapy (DPT) Students				
40	Regarding the Function, Roles, and				
	Objectives of the Apta House of	Haylee	Vass		
	Delegates	Casey	Robinson	Kurt	Neelly
	3d Motion Analysis of Single Leg Squat				
41	with Association to Hip Abductor	Sydney	Story		
	Strength and Ankle Dorsiflexion in A	Mason	Vandiver		
	Population with Ankle Injuries	Ryan	Bowman	Melissa	Tolbert
	Examining the Impact of Clinical				
42	Instruction on Burnout Levels Among	Stephanie	Bigham		
	Practicing Physical Therapists: Stressors	Emma	Chelf		
	and Emotional Impact	Natalie	Hagewood	Vance	Pounders
	Intra-rater Reliability of Activforce2 HHD	Ben	Naas		
43	in Assessing Hip Strength Musculature	Joel	Butcher		
		Trent	Rice	Melissa	Tolbert
	Effects of Full PPE on the Balance and	Leah	Adams		
44	Stability of Firefighters	Adasyn	Clarkson		
		Michael	Wood	Sonia	Young
	Assessing Heart Rate and Perceived	Hallie	Parrish		
45	Exertion in Virtual Reality Gaming for	Ethan	Walton		
	Aerobic Fitness	Parker	Bates	David	Bell
	Accuracy of Palpation of the Long Head	Jamie	Ashburn		
46	of the Biceps Tendon in First Year DPT	Canon	Campbell		
	Students	Kreyton	Cunningham	Penny	Head
47	The Impact of Prenatal Yoga on Hip				
	Mobility and Delivery Outcomes	Zoe	Avery	Rachel	Tinius
	Understanding Perceived Pediatric				
	Healthcare Needs in the Rural				
48	Mennonite Communities of South-				
	Central Kentucky: A Community-based				
	Research Study	Allison	West	Kim	Link
49	Descriptions of Black Autistic Girls' Social				
73	Communication Skills	Shayna	Garrett	Jenny	Burton
50	The Final Bow: A Musical Film on				Bostic-
30	Transitioning to Professional Theatre	Hanneh	Kevorkian	Tiffany	Brown

## Posters - Midday Session (12:15 pm - 1:45 pm)

#### SESSION CHAIRS: Jae Kim, Thad Crews, Les Archer

### DSU 1<sup>ST</sup> FLOOR

	19. FLOOR			MENTOR	MENTOR
BOARD #	ABSTRACT TITLE	FIRST NAME	LAST NAME	FIRST	LAST
#				NAME	NAME
	Qualitative Behavior of Solutions to				
1	Differential Equations in Abstract				
	Spaces	Austin	Anderson	Lan	Nguyen
	Blood Pressure Stress Reactivity				
2	Moderates the Association of Racial				
	Discrimination to Ethnic Minority				
	Youth's Conduct Problems	Sena	Er	Qingfang	Song
3	General Perception of Drug				
	Effectiveness	Chealsea	Gachagua	Jacob	Byl
	Predicting Covid-19 Severity: A				
4	Machine Learning Approach Using				
	Patient Symptoms	Vedant	Garg	Huanjing	Wang
	Arousal Regulation in Vigilance Task	Abigail	Goodin		
5	Among Patients with PTSD	Elijah	King		
		Areej	Ali	Sungjin	lm
6	Discovery And Analysis of				
	Mycobacteriophage Saranya	Vidhi	Grover	Rodney	King
	A Study on the Diversity and	Charles	Maddux		
7	Distribution of Birds in Cloudbridge	Frankie	Peak		
	Nature Reserve	Roby	Hardesty	Martin	Stone
	Assessing Fluorescent Dye Stability to				
8	Inform Groundwater Remediation	Leo	Martinez		<b>5</b> 1 1
	T 1: 0 5:11 1 ::1	Chris	Gachagua	Lee Anne	Bledsoe
9	Tracking a Rolling Can Filled with	D. III	N1 - 11		NI - II -
	Fluid Oscillating Along a Ramp	Prthu	Naik	Ivan	Novikov
40	Black/White Residential Segregation				
10	and Rates of Black Homicide	N.AII.a.m.	0	10.000	
	Victimization	Mallory	Quinn	James	Kanan
11	Resilient Architecture: Developing	Dohan	Chailth	Alv	Chahnas
	Infrastructure to Mitigate Flooding	Rehan	Shaikh	Aly	Shahnaz
12	Exploring Diversity: A Comparison of Bacteriophages Huggins and Hersh	Amelia	Sheehan		
12	Bacteriophages nuggins and nersi	Christina	Gast	Rodney	King
	Aquatic Macroinvertebrate Diversity	CHIISUIIa	GdSt	Roulley	KIIIR
	as a Measure of Water Quality in				
13	Cloudbridge Nature Reserve	Austin	Wooden		
	Cloudshidge Nature Neserve	Cameron	Collett	Keith	Philips
		L Carrieron	Conct	KCILII	p3

	Comparing the Performance of the				
14	Baltimore, Warren, and Pratt Truss	Marlowe	Hanel		
	Bridge Designs	Caroline	Cook	Kirolos	Haleem
15	Autonomous Robot for Mining	Brandon	Hydol-Smith		
15	Mayhem: IEEE Southeastcon 2025	William	Boyd	Mark	Cambron
	Ergonomics Assessment to Meet the				
16	Needs of Employees' Health and	Ashlee	Greenidge		
	Wellness	Ashley	East	Gretchen	Macy
	Historical County Level Maps of				
	Natural Disasters and Extreme				
17	Weather Events for A Statewide				
	Public Health Jurisdictional Risk	Chase	Pitchford		
	Assessment	Jay	Macy	Jacqueline	Basham
10	Diabetes Prediction Modeling with				_
18	Machine Learning Techniques	Ryan	Yang	Huanjing	Wang

DSU 2<sup>ND</sup> FLOOR *Midday Poster Session Continued* 

			ay roster sess		
BOARD #	ABSTRACT TITLE	FIRST NAME	LAST NAME	MENTOR FIRST NAME	MENTOR LAST NAME
19	Greenwood Acres at Vinalhaven	Caitlyn	Blandford	Shahnaz	Aly
20	Our Space	Syntyah	Hamilton	Shahnaz	Aly
21	United Fitness	Emily	Sanborn	Shahnaz	Aly
22	Form Follows Function: Applying Modern Design Principles to a Fun Center	Paige	Epperson	Shahnaz	Aly
23	Bluegrass Distillery	John	Shelton	Shahnaz	Aly
24	Sawtooth City Lodge	William	Weatherholt	Shahnaz	Aly
25	Creating Community in Sports and Activity	Nathaniel	Phillips	Shahnaz	Aly
26	Creating Safe Spaces: Evaluating Residential and Day Facilities for Vulnerable Populations	Caroline Carrigan Alaina Madison	Burton Watson Hess Miller	Shahnaz	Aly
27	Green Acres Golf Club House	Chloe	Wright	Shanaz	Aly
28	Cave City Stay and Play: A Family Fun Hotel	Kimberly	Lanham	Shahnaz	Aly
29	Sustainable Lighting on Modern Structures and the Methods Used to Bring Artistic Elements to the Forefront of Sustainable Lighting Design	Abigail	Abrams	Shahnaz	Aly
30	Cumberland Distillery: Where Bluegrass Meets Modern Bourbon Whiskey	Alexis	Cruz- Rodriguez	Shahnaz	Aly
31	Sustainable Fun for All: Clarksville's Ultimate Entertainment Hub	Arrmoni	Mixon	Shahnaz	Aly

	Hendersonville Music Center: Where				
32	History Inspires the Present	Andrew	Tate	Shahnaz	Aly
	, .	Madeline	Fey		,
22		Grace	Lawson		
33	Bridging The Past and Future of Equine	Josie	Raaf		
	Architecture in Kentucky	Kyler	Adams	Shahnaz	Aly
34	The American Belle	Logan	Goss	Shahnaz	Aly
35	Engaging The Community Through				
	Museum Design	Guadalupe	Ramirez	Shahnaz	Aly
36	Costa Rica Ecotourism Policy Analysis to				
	Measure Biodiversity Sustainment	Riley	Summers	Leslie	North
37	Effects of Accessibility on Quality of				
	Cenotes in the Mexican Yucatán Peninsula	Evie	Dukes	Chris	Groves
	Evolving Impacts of Tropical Systems on				
38	Kentucky's Climate: A Historical and				
	Statistical Analysis of Precipitation Trends	Helen	Rose	Jerald	Brotzge
39				Chris	Groves
	Caves, Calculus, and Climate Change	Ava	Lich		
	A History of Dye Tracing in The Hidden				
40	River Cave Groundwater Subbasin,				
	Kentucky: Visualizations into Karst				
	Hydrogeology and Contamination Risks	Mason	Oney	Patricia	Kambesis
41	Burch and Bark	Mia	Lampert	Sheila	Flener
42	The Secret Garden	Hallie	Pippin	Sheila	Flener
43	Elysian Wellness: A Nature-inspired				
	Wellness Sanctuary for Women	Sophia	Dant	Sheila	Flener
44	Women's Neighborhood Gym "Haven				
	Fitness"	Meg	Christensen	Sheila	Flener
	A review on the safety of meat and poultry				
45	products sold at farmers' markets				
		Sage	McBride	John	Khouryieh
	Impact of Temporomandibular Joint (TMJ)				
46	Sensitivity on Ridden and Ground Behavior				
	in Horses	Remi	Hensley	Debra	Shoulders
	Secondary Agricultural Mechanics				
47	Instructors Adaptations When Integrating				
	Special Needs Students into The			_	
	Laboratory Environment	Makayla	Bizzell	Thomas	Kingery
48	Proposing a TMJ Sensitivity Scoring System	_			
	in Horses	Lily	Jones	Debra	Shoulders
49	Gender, Victimization and Substance Use	Caitlin	Hinds	Justin	Smith
	Enhancing Photodynamic Therapy:				
	Reserpine-mediated Efflux Pump				
50	Inhibition for Improved Pathogen				
	Deactivation with Methylene Blue and				
	Nanoparticles	Begench	Gurbandurdyyev	Ali	Oguz Er

## Posters - Afternoon Session (2:00 pm - 3:30 pm)

SESSION CHAIRS: Jae Kim, Thad Crews, Les Archer

### DSU 1<sup>ST</sup> FLOOR

BOARD #	ABSTRACT TITLE	FIRST NAME	LAST NAME	MENTOR FIRST NAME	MENTOR LAST NAME
1	Preferences And Utilization of Stress Management Techniques Among Young Adult Heavy Drinkers Enrolled in a Digital Health Intervention	Lily	Milam	Matthew	Woodward
2	Dating While Trans: A Conjoint Analysis of Men's Romantic Preferences	Jade	Ismail	Aaron	Wichman
3	Age-related Differences in the Perception of Negative Emotions Including Pain	Alana Sheila	Medina- Disponett To	Andrew	Mienaltowski
4	The Association Between an EEG Biomarker of Language Abilities and Mental Health Symptoms in Survivors of Childhood Traumatic Brain Injury	Lynnsey	Cole	Patrick	Ledwidge
5	Examining Predictors of Maternal Parenting Behaviors: The Roles of Parental Efficacy, Infant Temperament, and Partner Support	Ama	Boateng	Diane	Lickenbrock
6	Infant Temperament as a Predictor of Parental Anxiety with Mothers and Fathers Across Early Infancy	Hailey	Borges	Diane	Lickenbrock
7	Can V1 Targeted Transcranial Focused Ultrasound Induce a Temporary Visual Blindspot?	Yulia	Mishchuk	Gordon	Baylis
8	Problematic Smartphone Use Is Associated with Posttraumatic Cognitions	Sophie Cassie Alex Amina	Jerome Barret Gehring Sulejmanovic	Matthew	Woodward
9	ERP Correlates of Cognitive Control During an Unanticipated Sidestep Maneuver: Preliminary Findings from an EEG Mobile Brain-Body Imaging (MOBI) Study	Carly	McPherson	Patrick	Ledwidge
10	Bipartisan Party Attribution Eliminates Negative Effects of Need for Chaos on Political Policies.	Trenton	Daugherty	Aaron	Wichman

	Accuracy in Performing a Run-to-cut				
11	Sidestep Maneuver Is Poorer When				
11	Planting on Non-dominant Limb:				
	Preliminary Findings	Jaime	Heckler	Patrick	Ledwidge
	Planting with the Non-Dominant Limb				
	during an Unanticipated Sidestep				
12	Maneuver Produces Higher Vertical				
	Tibial Accelerations: Preliminary	Lily	Faulkenberg		
	Findings	Camille	Ratcliff	Patrick	Ledwidge
	The Impact of a Trauma-informed				
13	Brief Intervention on PTSD,				
	Depression, and Anxiety	Dalton	Dickerson	Matthew	Woodward
	Examining the Impact of Political				
14	Affiliation and Related Images on False				
	Memories	Shawn	Sullivan	Amber	Giacona
	Poor Attachment Mediates the				
15	Negative Impact of Parental Mental				
	Disorders on Young Adults' Mental	Alyssa	Bozeman		
	Health and Help Seeking Intentions	Caleb	Penick	Qin	Zhao
	Beyond What Students Value:				
16	Investigating Perceived Dislikes in the	Jordan	Baird		
	College Learning Experience	Ava	Shea	Lisa	Duffin
		Hannah	Hennessey		
17	Safety in Numbers? An Experimental	Ashley	Cross		
	Exploration of The Effects of Police	Ava	Shea		
	Force Size as Moderated by Legitimacy	Jenna	Clark	Christopher	Peters
	Reevaluating Perlin's Nine Insanity				
18	Myths: The Influence of Demographics	Hannah	Hennessey		
10	and Political Orientation in Modern	Chris	Peters		
	Society	Jessye	Denney	Christopher	Peters

#### DSU 2<sup>ND</sup> FLOOR

#### Afternoon Poster Session Continued

BOARD #	ABSTRACT TITLE	FIRST NAME	LAST NAME	MENTOR FIRST NAME	MENTOR LAST NAME
19	The Effects of Replication Crisis Instruction on the Development of Skepticism	Ericka	Hoppes	Amber	Giacona
20	Exploring Suicide Intervention Among a Community Sample	Kaymin	Wilkins	Sarah	Bonis
21	Performance Anxiety Across Sport Categories	Averi	Cline	Steven	Wininger

22	Perceptions of Crime: How Influencer and Celebrity Status Affect Blame and the				
22	Role of Media Outlets	Jessye	Denney	Christopher	Peters
	Impact of Goal Type on Anxiety,				
23	Attention, and Performance: A				
23	Comparison of Intrinsic Versus				
	Performance Goals	Kaitlin	Polly	Steven	Wininger
	When Loyalty Leads to Blind Conformity:				
24	The Role of Member Loyalty, Leader				
	Loyalty, and Leader's Mental Health in	Kendall	Al-Halah	Varias las	Vaca
	Sunk Cost Fallacy Buti Yoga: Movement, Mindfulness, and	Emma Victoria	Hicks Minteer	Young-Jae	Yoon
25	Mental Health	Cheyla	Ferguson	Jill	Sauerheber
	Telehealth Use in Victims' Service	Cricyia	reigason	3	Cassity-
26	Settings	Jamison	Brown	Whitney	Caywood
	From Classroom to Clinic: Evolving	Lauren	Wilson	,	•
27	Attitudes Toward AI in the Counseling	Duerell	Bard		
	Profession	Oceanna	Dykes	Lester	Archer
28	Why Is Sleep Difficult?	Parker	Wiggins	Lily	Zhuhadar
	Social Media and Mental Health Insights				
29	For Public Policy And Public Health				71 1 1
	Duodieties Harandeus Noon oonth Objects	Ryan	Spychalski	Lily	Zhuhadar
30	Predicting Hazardous Near-earth Objects Using Machine Learning for Planetary				
30	Defense	John	Costa	Lily	Zhuhadar
	Enhancing Airline Passenger Satisfaction	33	00010	,	
24	Through Predictive Analytics: A Data-				
31	driven Approach to Improving Customer				
	Experience	Cole	Kidd	Lily	Zhuhadar
	Leveraging Predictive Analytics to				
32	Mitigate Employee Attrition: A Data-				
	Driven Approach to Workforce Retention	Hayden	Coles	Lily	Zhuhadar
33	Employee Future Prediction	Christian	Sander	Lily	Zhuhadar
33	Predicting Body Fat Percentage Using	Cinistian	Janaci	y	Ziidiiddai
34	Machine Learning: A Cost-effective				
	Approach for Health & Wellness	Michael	Delaney	Lily	Zhuhadar
35	Predicting College Student Drop Out				
33	Rates Using Predictive Analytics	Jenna	Wells	Lily	Zhuhadar
	Inquiry Oriented Dynamical Systems and				
36	Modeling for Pre-service Secondary				
	Mathematics Teachers: Literature Review	Molania	Ctowart	Nicholas	Fortuna
	and Preliminary Data Exponential Stability Preserving Semi-	Melanie	Stewart	Nicholas	Fortune
	Discretized Model Reduction for Two				
37	Interconnected Strings with a Dynamic				
	Interior Mass	Zoe	Brown	Ahmet Ozkan	Ozer
	•				

38	Strategies and Outcomes of an Hourglass		_		
	Quadruel	Dastin	Scott	Dominic	Lanphier
	Unconscious Political Messaging in	Emma	Hyman		
39	Children's Films: An Analysis of The Nut	Jamie	Browder-		
	Job (2014)		Seguin	Dorothea	Browder
40	Investigating the Twin Prime Conjecture	Alyssa	Hauber	Dominic	Lanphier
	Predicting Uptake of New				
41	Pharmaceuticals Based on Perceptions of				
	Credibility and Risk Beliefs	Macie	Conger	Jacob	Byl
42	Music Education for All: Connecting				
42	Cultures and Conservation	Lauren	Lane	Andrew	Braddock
43	Patrice Lumumba: Champion Of Human				
43	Rights and Self-determination	Flora	Lin	Patricia	Minter
44	Nexus: Xr Lab Game Design Research				
44	Project	Samantha	Bowling	Mark	Simpson
	What If? A Contemporary Take on the				
45	Speculative Design Project, Attenborough				
	Design Group	Samantha	Tinsley	Leah	Spalding
46		Sarah	Thompson		
40	Totspot Ar	Kelly	Miller	Jeffrey	Galloway
	Comparing The Performance of the Fink,				
47	Fan Fink, And Compound Fink Truss				
	Bridge Designs	Luke	Phelps	Kirolos	Haleem
48	Rhetorical In/Exclusivity in Church				
40	Welcome Messages	Taryn	Deckard	Jessi	Thomsen
	Ritual Landscapes on the Periphery of				
49	The Turkic Empire: A Spatial Analysis of				
43	Monuments in The Zuunkhangai Region,				
	Mongolia	Tyler	Dedic	Jean-Luc	Houle
	Enhancing Injury Prevention and				
50	Management: Developing Standardized				
30	Injury Screening Survey for WKU's Dance				
	Program	Grace	Carter	Meghen	McKinley