



URAC•2023

UNDERGRADUATE RESEARCH & ARTS CELEBRATION

- Poster Presentations
- Oral Presentations
- Research Roundtables
- Art, Music & Creative Works
 - Video Screenings
- Public Speech & Debate

WEDNESDAY, APRIL 19, 2023

Sponsored by The Drinko Center for Undergraduate Research



WESTMINSTER COLLEGE

WELCOME TO URAC 2023!

Westminster College is proud to host the 2023 Undergraduate Research and Arts Celebration. This signature event allows the Westminster Community to share, discuss, and learn about hundreds of topics. Today, over 300 students will present their research and creative projects across campus via oral presentations, research roundtables, poster sessions, videos, public speeches, debates, performances, and art displays. Nearly every academic program on campus is represented in the outstanding work being showcased today, and students at all levels, from first years to seniors, will be engaged in the activities of the day.

The Westminster College mission statement includes eight essential outcomes: to reason logically and evaluate critically; to communicate effectively; to think creatively and appreciate aesthetic expressions; to demonstrate intellectual curiosity; to acquire knowledge of self, society, human cultures, the natural world, and human relationships to God; to apply knowledge to contemporary issues; to demonstrate moral and ethical commitments to neighbor, society, and the natural world; and to demonstrate commitment to lifelong learning and the acquisition of skills for careers and responsible service as world citizens. The student work being presented, performed, and displayed today embodies all of these outcomes and is a testament to the value of a Westminster education.

Our 2023 URAC participants are excited to share their work with the community today. Much of what you will see today is the culmination of years of study and countless hours of hard work. For some students, URAC 2023 will be their first formal presentation in college, and for others, participating in URAC 2023 is a final milestone before graduation. I am enormously proud of all of the students sharing their work today.

Today's artists, performers, and scholars were supported in their endeavors by Westminster College faculty, staff, administration, and campus offices, as well as by parents and friends. I would like to thank everyone for providing this support and helping Westminster students to shine. Special thanks go out to the members of the Undergraduate Research Advisory Council; their efforts made URAC 2023 possible.

I hope you enjoy today's events! Thank you for attending the Undergraduate Research and Arts Celebration.



Karen K. Resendes
Director, Drinko Center for Undergraduate Research



BE PROUD OF YOUR ACCOMPLISHMENTS!



SHARE YOUR MOMENT!

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@westminsterpa | #wcurac

URAC 2023

#WCURAC



EVENT SCHEDULE

9AM - 4 PM	SCRAWL 2023 RELEASE TABLE Cultural Center
9 - 9:15 AM	WHERE THEY ARE FROM: A POETRY COLLECTION BY THE CLASS OF 2026 Quad
9 - 10 AM	BARBERSHOP CLUB McKelvey Tub
	POSTER SESSION A Witherspoon Rooms
	VIDEO SCREENINGS Mueller Theater
	FOCUS GROUP: DOCUMENTARY PREVIEW McKelvey 275
10 - 10:30 AM	ART GALLERY TALK Patterson Foster Art Gallery
10 - 10:45 AM	CONCURRENT RESEARCH ROUNDTABLES Patterson 1st/2nd Floor
10 - 11 AM	PANEL: HOW TO GET STARTED IN RESEARCH Berlin Lounge
10 - 11:20 AM	CONCURRENT ORAL SPEAKERS Patterson 1st/2nd Floor
11 - 11:15 AM	PERCUSSION ENSEMBLE Orr Auditorium
11 AM - 12 PM	VIDEO SCREENINGS Mueller Theater
	POSTER SESSION B Witherspoon Rooms
	FOCUS GROUP: DOCUMENTARY PREVIEW McKelvey 275
12 - 1 PM	FEATURED PODIUM PRESENTATION SPEAKERS Mueller Theater and Facebook Live
	POETRY SLAM Cultural Center
12 - 1:30 PM	PUBLIC SPEECHES Berlin Lounge
1 - 2 PM	POSTER SESSION C Witherspoon Rooms
	ART DISPLAY McKelvey 3rd Floor Atrium
	SCRAWL RELEASE PARTY Cultural Center
	FOCUS GROUP: DOCUMENTARY PREVIEW McKelvey 275
1:30 - 2:00 PM	READERS THEATER Berlin Lounge
1:30 - 2:15 PM	CONCURRENT RESEARCH ROUNDTABLES & SPECIAL PRESENTATIONS Patterson 1st/2nd Floor
1:30 - 2:50 PM	CONCURRENT ORAL SPEAKERS Patterson 1st/2nd Floor
3 - 3:15 PM	MARKET STREET BRASS QUINTET McKelvey Tub
3 - 4 PM	FEATURED PODIUM PRESENTATION SPEAKERS Mueller Theater and Facebook Live
	PARLIAMENTARY DEBATE Berlin Lounge
	POSTER SESSION D Witherspoon Rooms
	FOCUS GROUP: DOCUMENTARY PREVIEW McKelvey 275



Sigma Tau Delta
and SCRAWL
Present:

POETRY SLAM

URAC 2023 • April 19, 2023

CULTURAL CENTER 12:00-1:00

Come join us to hear original creations
sponsored by SCRAWL and Sigma Tau Delta
– the International English Honor Society!



SIGMA TAU DELTA
INTERNATIONAL ENGLISH HONOR SOCIETY



URAC•2023 RESEARCH EXPERIENCE PANEL

HOW TO GET STARTED IN RESEARCH

BERLIN LOUNGE 10:00-11:00 AM

COME HEAR STUDENTS FROM A VARIETY OF MAJORS AND CLASS STANDING AS THEY TALK ABOUT HOW THEY GOT STARTED IN RESEARCH AND THEIR EXPERIENCES IN A VARIETY OF RESEARCH PROJECTS.

ATTENDEES WILL HAVE THE OPPORTUNITY TO ASK THE PANELISTS QUESTIONS.

FIRST YEARS AND SOPHOMORES IN ATTENDANCE ARE ELIGIBLE FOR A DOOR PRIZE!

PANELISTS:

ERIN DaRe First Year History	SOPHIA GALIETTA Junior Psychology & Art	HARRIS KOHL Senior Chemistry
LAUREN MILLHORN Senior English	JAMIE ROBERTSON First Year Environmental Science & Physics	HARMONY WILSON Sophomore Biology



DO YOU WANT TO WIN A \$25 SHEETZ GIFT CARD?

Students and Attendees:

We want to hear from you!

**Complete the *URAC Experience Survey*
and be entered for a chance to win a
\$25 Sheetz Gift Card!**



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Complete by Wednesday, May 3rd!

<https://www.surveymonkey.com/r/URAC2023>

URAC•2023

POSTER PRESENTATIONS

Witherspoon Rooms

URAC•2023 POSTER PRESENTATIONS


POSTER NUMBER	TITLE	RESEARCHER(S)	FACULTY SPONSOR
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SESSION A — 9-10 AM

A1	Putting on the Blitz: The NFL, Effort to Improve Environmental Sustainability	Morgan Byers, Tommy Howell	Robert Zullo	
A2	ADHD and Nicotine: Sleep Quality and Activity Levels as Possible Mediators	Noah Crawford	Jessica Rhodes	
A3	Cold War Memory and the Russian Invasion of Ukraine	Joseph Armstrong	Angela Lahr	
A4	ADHD and Smoking-Related Behaviors: An Examination of Emotional Intelligence as a Possible Mediator	Sadie Cunningham	Jessica Rhodes	
A5	Happy Gilmore Wants You to Keep Green: Environmental Sustainability on Top Golf Courses	Sean Fitzpatrick, Aaron Alderette, Luca Botti	Robert Zullo	
A6	The Effects of the Bombing of the Ho Chi Minh Trail During the Vietnam War	Jacob Forrest	Angela Lahr	
A7	Comparing Deer-Related Crashes in a Rural and Urban County in Pennsylvania	Ashlyn Lang	Patrick Krantz	
A8	Fast Foods Embrace of Sustainability	Keenan Heeter, Mikaela Crumlich, Gavin Hogue, William Levak	Robert Zullo	
A9	Thirsty For Sustainability	Brooke Horvath, Gia Francisco, Dawson Yocum, Alessandra Zervanos	Robert Zullo	
A10	Cartoon Cold War: The Power of Propaganda	Ian Jackson	Angela Lahr	
A11	Extraction of lithium using Osorb as the extraction media	Harris Kohl	Peter Smith	
A12	The Effect of Niclosamide Lampricide on the Development of Zebrafish (Danio rerio)	Ava Krensky	Marosh Furimsky	 
A13	Increase In Flu Vaccine Uptake Among College Students	Hannah Krofcheck	Melissa Baron	
A14	Endocarditis- A Case Study	Ashley Madasz	John Robertson	

POSTER NUMBER	TITLE	RESEARCHER(S)	FACULTY SPONSOR	
A15	S.T.I.C.K. IV Infiltrate Bundle: Prevention of Pediatric IV Infiltrations	Camryn Marshall	Joni Darby	
A16	Acute Lymphocytic Leukemia and its Treatment	Owen Martin	John Robertson	
A17	For What Its Worth: Music and Counterculture During the Vietnam War	Jacob Medvitz	Angela Lahr	
A18	You Can't Sit With Us: An Update to Rejection Sensitivity Assessment	Katherine Mozelewski, Lindsay Cotton	Jessica Rhodes	
A19	16 S ribosomal gene sequencing to determine diversity of bacteria from B flat trumpets.	Emily Hipolito	Joseph Balczon	
A20	Determining the diversity and host preference of mosquitoes collected at the Tabogas Forest Reserve, Costa Rica	Emma Parker, Harmony Wilson	Diana Ortiz	
A21	Effects of oxybenzone on reproduction in ramshorn snails and zooxanthellae count in Aiptasia pallida	Megan Strohmer	Ann Throckmorton	
A22	The Role of Nicotine and Stress in Sucrose Preference in Rats	Morgan Tenney	Deanne Buffalari	
A23	Risk factors associated with health inequities in Arizona from 1950 to 1972	Sam Ferguson	Diana Ortiz	
A24	Problems with Pregnancy: Preeclampsia	Macy Stoddard	John Robertson	

SESSION B — 11 AM-12 PM

B1	Insulin Required- A Look into Type 1 Diabetes	Sadie Cunningham	John Robertson	
B2	The Plastic Problem: An Analysis of the Effects of Microplastics on Danio rerio Development	Marcus Diniaco	Marosh Furimsky	
B3	Decreasing Catheter Associated Urinary Tract Infections	Adriana Emili	Joni Darby	



DIVERSITY AND SOCIAL JUSTICE AWARD CANDIDATE



ENVIRONMENTAL PRIZE CANDIDATE



HEALTH AND WELL-BEING
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POSTER NUMBER	TITLE	RESEARCHER(S)	FACULTY SPONSOR	
B4	Decreasing Mortality Risk in Emergency Department Boarding Patients	Marina Felasco	Joni Darby	
B5	Usher Syndrome: The Imbalance of Hearing and Vision	Mia Greco	John Robertson	
B6	The Soviet Withdrawal from Afghanistan and the Taliban Reign	Chloe Hudecki	Angela Lahr	
B7	GCS Scores and Neurological Assessments on Patients with Head or Spine/Spinal Cord Trauma	Kaitlyn Johnson	Joni Darby	
B8	King Presley Turned Private Presley: How the Media Portrayed Private Elvis Presley	Anthony Kamenski	Angela Lahr	
B9	The Effects of Pre-Exposure to Cannabinoids on the Susceptibility of Zebrafish to Scopolamine Associated Memory Deficits	Sophia Kaplan	Deanne Buffalari	
B10	Quality Improvement Project on Sublocade Injections	Emiley Kushner	Joni Darby	
B11	Television as an Unlikely Weapon During the Cold War	Franklin Manios	Angela Lahr	
B12	A Study of the Perceived Impact on Mental Health of College Students in Nature-Based Classes	Abigail McCardle	Kristin Park	
B13	The Personality Types and Associations Within Greek Life, Athletes, and Unaffiliated Men and Women/Non-Student Athletes College Students	Brooke McQuillan	Kristin Park	
B14	Replication of A 3D-Printed Ellipsometer	Ian Wilt	Craig Caylor	
B15	Attitudes of Undergraduate Students at a Liberal Arts College Regarding the Covid-19 Vaccine	Madison Miller	Tricia Ryan	
B16	The Motion of Soap Film Bubbles & The Dynamic Viscosity of Air	Asia Morgenstern	Craig Caylor	
B17	Musculature of the Gill Arch of Paddlefish: A Role in Gill Raker-Based Filter Feeding	Jimmy Oberlin	John Robertson	

POSTER NUMBER	TITLE	RESEARCHER(S)	FACULTY SPONSOR
B18	Got Beer? Environmental Sustainability in the Beer Industry	Brady Page, Caden Rainey, Aidan Minnock, Sean Casey	Robert Zullo 
B19	Phosphorus Transport into Lake Brittain	Jacob Patton	Helen Boylan  
B20	The Cold War through the eyes of Joseph Stalin and George Kennan's Daughters	Bahiyyah Richards	Angela Lahr
B21	Examining the binding of 3'Exo to the histone mRNA stem loop	Natalie Rose	Patrick Lackey
B22	Generating Novel Chiplet Designs Utilizing the Wave Function Collapse Algorithm in Python	Jacob Trzcinski	Matteo Luisi
B23	Saving the World One Shot at a Time: Sustainability in the Liquor Industry	Madison Utiss, Natalie Franke, Allison Dean, Elise Jordan	Robert Zullo 
B24	Get Fit with Environmental Sustainability in Recreation	Felix Zamborsky, Connor Dale, Katie Henningsen	Robert Zullo 
B25	Mechanisms of Aeromonas hydrophila Contributing to Antibiotic Resistance Determined by Whole Genome Sequencing and Bioinformatics Analysis	Jacob Miller, Daniel Blank, Michael Petronzio	Kristen Amick 

SESSION C — 1-2 PM

C1	Effects of Religiosity, Political Affiliation, and Gender Role Identity on Men's Attitudes Toward Abortion	Vanessa Tom	Kristin Park 
C2	Detecting Antibiotic Resistant Genes via Whole Genome Sequencing of Pseudomonas asiatica	Srioviya Deivaprakash, Kenzie Dunn, Julia Redilla	Kristen Amick  
C3	A Realization of Rhabdomyolysis: Am I Eating Myself?	Marcus Diniaco	John Robertson 
C4	The Cold War, The Role of Nazi Scientists and Morality	Sean Casey	Angela Lahr
C5	Exposure to Butyl-paraben Results in Developmental Abnormalities in Zebrafish	Caroline Fox	Marosh Furimsky











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HEALTH AND WELL-BEING
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POSTER NUMBER	TITLE	RESEARCHER(S)	FACULTY SPONSOR	
C6	Neural Networks	Shannon Geer	Natacha Merz	
C7	Sustainable Drip	Joshua Glaser, John Menefee, Austin Stapleton, Connor Schmidt	Robert Zullo	
C8	Effect of Short-term Hormone Treatment on the Behavioral Anxiety Response in Adult Zebrafish when Exposed to Acute Stress	Aidan Guzma	Deanne Buffalari	 
C9	El Efecto Castro	Dalton Hamm	Angela Lahr	
C10	Use of Acoustic Monitoring to Study Bats in New Wilmington Pennsylvania	KayLee Hankins	Helen Boylan	
C11	Nuclear Attitudes of Cold War Americans	Victoria Harden	Angela Lahr	
C12	Comparing Hemophilia A and B	Taylor Harman	John Robertson	
C13	Exercise as a modulator of behavior relevant to drug addiction in zebrafish	Ella Hildebrand	Deanne Buffalari	
C14	Can mushrooms save the earth? A new take on sustainable packaging.	Michael Orsi, Mark Armile, John Colella	Keith Bittel	 
C15	Reducing the Incidence of Hypothermic Newborns following Vaginal Deliveries	Jessica Huff	Joni Darby	
C16	Assessing Westminster's Campus Nutrition and Food Insecurity	Abigayle Hvizdak	Joni Darby	
C17	Model United Nations Conference	Christina Loewe, Izayah Bojanac, Sean Casey, Erin Callahan-Cardin, Sarah Anil Cherian, Teddy Curcio, Gabriela Garza, Krysta Germanoski, Gabrielle DiDolce, Kent Dunn, Dalton Hamm, Caio Souza, Mateus Souza, Marcus Tokar, Kelsey Humes, Helen Moseley, Makyla Wheeler, Victoria Valcarcel Matos, Nicholas Smith	Michael Aleprete	
C18	An Intersectional Approach to Understanding How Individual Biases are Related to Perceptions of Punitiveness	Lindsey Oliver	Jamie Chapman	
C19	Monitoring and Understanding Early Stage Bone Mineralization	Kate Sharp	Erin Wilson	

POSTER NUMBER	TITLE	RESEARCHER(S)	FACULTY SPONSOR	
C20	Pollution Sources and Mercury Contamination in the French Creek Watershed	Jonathan Sibeto	Patrick Krantz	
C21	Determining the LC50 of octinoxate for Aiptasia pallida	Megan Strohmenger	Ann Throckmorton	
C22	Walk Off Grand Slam, Going Green in Professional Baseball	Karen Swartzentruber, Michael Brilla, Erika Hoover	Robert Zullo	
C23	Economic and Chemical Feasibility of Using Environmentally-Friendly Supercritical Carbon Dioxide in Solvent Applications.	Jacob Trzcinski, Adrian Jimenez, Xavier McDonald ,Marcel Smith-Austin	Peter Smith	
C24	Genome Sequencing, Species Identification, and Investigation of Mechanisms of Antibiotic Resistance in Pseudomonas protegens	Lauren Turturice, Simone Izzo, Morgan Tenney, Emma Stewart	Kristen Amick	
C25	Sustainability and the NBA: A Dynamic Duo of Best Practices in the National Basketball Association (NBA)	Jordan Zupko, Brendan Donnelly, Frankie Manios	Robert Zullo	

SESSION D — 3-4 PM

D1	Marketing & Sustainability in the Automobile Industry	Dayshawn Elliott	Robert Zullo	 
D2	Studying the Effect of Exercise on Anxiety in Zebrafish	Kiera Callaway	Deanne Buffalari	
D3	The Cold War: Ballet's Cultural Effect	Erin DaRe	Angela Lahr	
D4	Move in Condition	Grace Deschand, Jad Jadallah	Jesse Ligo	
D5	The Shocking Facts of Anaphylaxis	Stacey Badman	John Robertson	
D6	High Altitude Cerebral Edema, a potentially life-threatening condition	Gage Hendrickson	John Robertson	
D7	The Effect of Embryonic Exposure to Ibuprofen on Visual System Development	Mia Greco	Marosh Furimsky	

POSTER NUMBER	TITLE	RESEARCHER(S)	FACULTY SPONSOR
D8	The Change of Acid-Base Equilibrium relating to Metabolic Acidosis	Jacob Miller	John Robertson
D9	Sex differences in the interactions of nicotine and food deprivation on anxiety-like behavior	Katherine Mozelewski	Deanne Buffalari 
D10	Boarding in the Emergency Department	Shae-Lynn Quinn	Joni Darby
D11	Preliminary Analysis of Drinking Water Quality at Westminster College	Jamie Robertson	Ann Throckmorton   
D12	Method for Reducing the Number of Patients who Leave the Hospital Without Being Seen	Jonathan Shaffer	Joni Darby 
D13	The Effect of B-alanine on the Rate of Axolotl Wound Healing and Limb Regeneration	Madelyn Scarmack	Joshua Corrette-Bennett
D14	Soviet Invasion of Afghanistan	Jacob Scarff	Angela Lahr
D15	Soil Quality Analysis Before and After a Prescribed Burn	Morgan Straw	Jessica Sarver 
D16	Origins and Effects of the Term Brainwashing During the Cold War	Emma Sukal	Angela Lahr
D17	The Effects of Aspartame on Survival and Behavioral Profiles of Fathead Minnows	Morgan Tenney	Joseph Balczon
D18	Identifying Beta-lactam antibiotic resistant E.coli using Immunofluorescence with antibodies specific to Beta-lactamase	Lane Voytik	Joseph Balczon 
D19	Osteopathic Manipulative Medicine: Ideology and Application	Aryanna Weller	John Robertson 
D20	The Effect of Bisphenol F on Zebrafish Eye Development	Lindsey Wheaton	Marosh Furimsky
D21	Chernobyl, Relationship to the Downfall of the Soviet Union and the Ending of the Cold War	Benjamin Williams	Angela Lahr



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HEALTH AND WELL-BEING
AWARD CANDIDATE



FIRST-YEAR PRIZE CANDIDATE

POSTER

NUMBER TITLE

RESEARCHER(S)

FACULTY SPONSOR

D22 Fogged Up: Effect of Covid-19 on the Cognitive Functioning in College Students

Brianna Williams

Eric Fields



D23 Determining the diversity and host preference of mosquitoes collected at the Tabogas Forest Reserve, Costa Rica

Harmony Wilson, Emma Parker

Diana Ortiz

D24 Functionalization of Carbon Nanotubes by 1,3-Dipolar Cycloaddition and their use in Electrodeposited Metal Matrix Composites for Reinforcement of Metal Contacts in Space Photovoltaic Cells

Ian Wilt

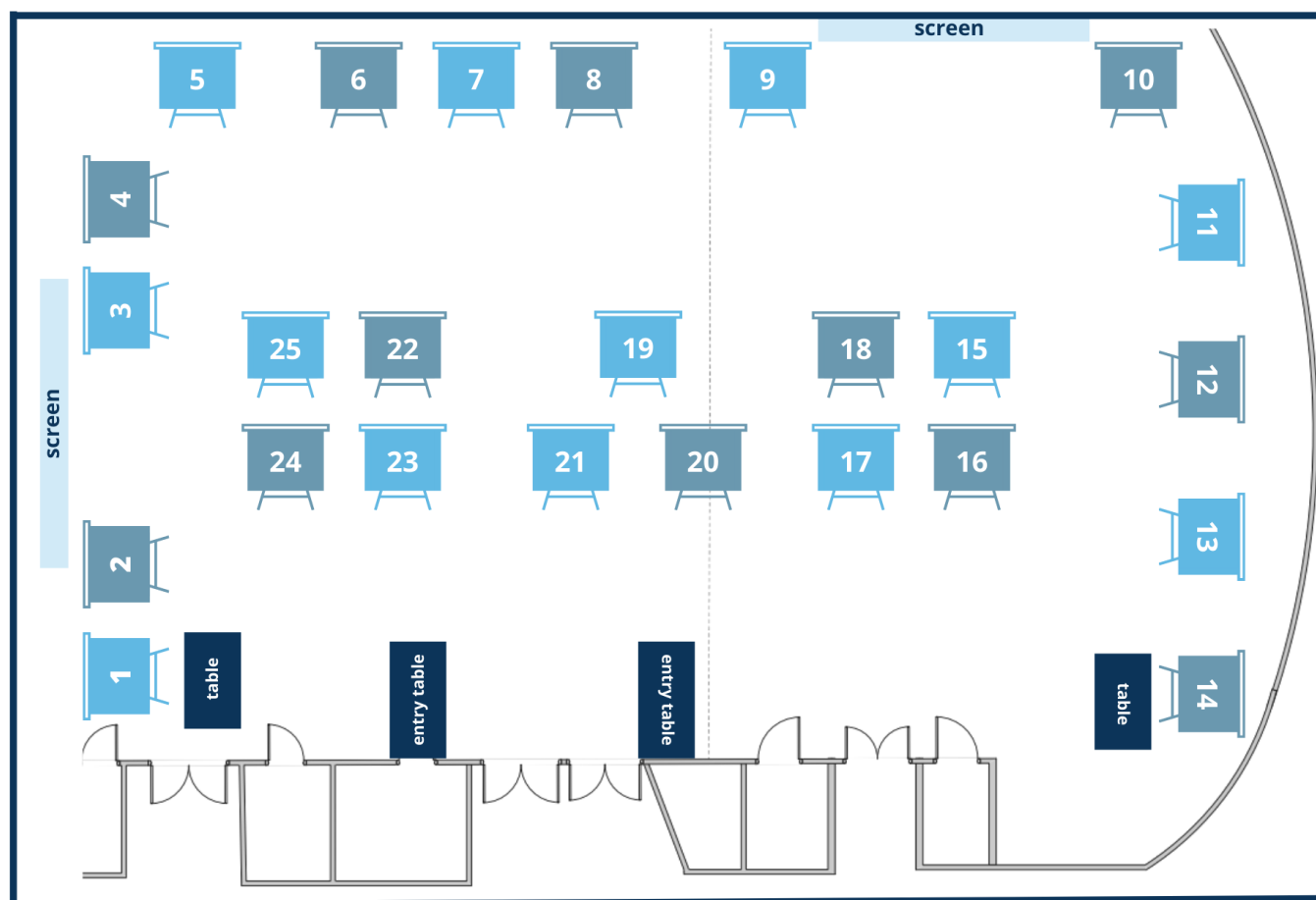
Peter Smith

D25 Longterm Analysis of Implementing a Protocol to Reduce CAUTIs Within a Healthcare System

Megan Routh

Joni Darby

POSTER SESSION MAP:



INDEX OF POSTER PRESENTERS

PRESENTER	POSTER #	PRESENTER	POSTER #	PRESENTER	POSTER #
Aaron Alderette	A5	Abigayle Hvizdak	C16	Bahiyyah Richards	B20
Sarah Anil Cherian	C17	Simone Izzo	C24	Jamie Robertson	D11
Mark Armile	C14	Ian Jackson	A10	Natalie Rose	B21
Joseph Armstrong	A3	Jad Jadallah	D4	Megan Rutch	D12
Stacey Badman	D5	Adrian Jimenez	C23	Jacob Scarff	D25
Daniel Blank	B25	Kaitlyn Johnson	B7	Madelyn Scarmack	D13
Izayah Bojanac	C17	Elise Jordan	B23	Connor Schmidt	C7
Luca Botti	A5	Anthony Kamenski	B8	Jonathan Shaffer	D14
Michael Brilla	C22	Sophia Kaplan	B9	Kate Sharp	C19
Morgan Byers	A1	Harris Kohl	A11	Jonathan Sibeto	C20
Erin Callahan-Cardin	C17	Ava Krensky	A12	Nicholas Smith	C17
Kiera Callaway	D2	Hannah Krofcheck	A13	Marcel Smith-Austin	C23
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John Colella	C14	Ashlyn Lang	A7	Mateus Souza	C17
Lindsay Cotton	A18	William Levak	A8	Austin Stapleton	C7
Noah Crawford	A2	Christina Loewe	C17	Emma Stewart	C24
Mikaela Crumlich	A8	Ashley Madasz	A14	Macy Stoddard	A24
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Connor Dale	B24	Owen Martin	A16	Emma Sukal	D16
Erin DaRe	D3	Abigail McCardle	B12	Emma Sukal	D16
Allison Dean	B23	Xavier McDonald	C23	Karen Swartzentruber	C22
Srioviya Deivaprakash	C2	Brooke McQuillan	B13	Morgan Tenney	A22, C24, D17
Grace Deschand	D4	Jacob Medvitz	A17	Marcus Tokar	C17
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Brendan Donnelly	C25	Madison Miller	B15	Lauren Turturice	C24
Kenzie Dunn	C2	Aidan Minnock	B18	Madison Utiss	B23
Kent Dunn	C17	Asia Morgenstern	B16	Victoria Valcarcel Matos	C17
Dayshawn Elliott	D1	Helen Moseley	C17	Lane Voytik	D18
Adriana Emili	B3	Katherine Mozelewski	A18, D9	Aryanna Weller	D19
Marina Felasco	B4	Jimmy Oberlin	B17	Lindsey Wheaton	D20
Sam Ferguson	A23	Lindsey Oliver	C18	Makyla Wheeler	C17
Sean Fitzpatrick	A5	Michael Orsi	C14	Benjamin Williams	D21
Jacob Forrest	A6	Brady Page	B18	Brianna Williams	D22
Caroline Fox	C5	Emma Parker	A20, D23	Harmony Wilson	A20, D23
Gia Francisco	A9	Jacob Patton	B19	Ian Wilt	B14, D24
Natalie Franke	B23	Michael Petronzio	B25	Dawson Yocum	A9
Gabriela Garza	C17	Shae-Lynn Quinn	D10	Felix Zamborsky	B24
Shannon Geer	C6	Caden Rainey	B18	Alessandra Zervanos	A9
Krysta Germanoski	C17	Julia Redilla	C2	Jordan Zupko	C25
Joshua Glaser	C7				
Mia Greco	B5, D7				
Aidan Guzman	C8				
Dalton Hamm	C9, C17				
KayLee Hankins	C10				
Victoria Harden	C11				
Taylor Harman	C12				
Keenan Heeter	A8				
Gage Hendrickson	D6				
Katie Henningsen	B24				
Ella Hildebrand	C13				
Emily Hipolito	A19				
Gavin Hogue	A8				
Erika Hoover	C22				
Brooke Horvath	A9				
Tommy Howell	A3				
Chloe Hudecki	B6				
Jessica Huff	C15				
Kelsey Humes	C17				



URAC•2023












ORAL PRESENTATIONS &
RESEARCH ROUNDTABLES

Mueller Theater and Patterson Classrooms

URAC•2023 CONCURRENT ORAL PRESENTATIONS

PATTERSON CLASSROOMS


CONCURRENT MORNING SESSIONS — 10:00-11:20 AM

	10:00 AM	10:20 AM	10:40 AM	11:00 AM
PATTERSON 105	<p>HERE'S THE DIRT ON HYDROPONICS... YOU DON'T EVEN NEED IT.</p> <p>Noah Sofran</p>  	<p>RUST BUCKET VS SHINER</p> <p>Andrew Heider</p>	<p>CENTRIN2 EFFECTS THE NUCLEAR EXPORT AND CENTROSOMAL LOCALIZATION OF BRCA1/BRCA2 IN HS578T BREAST CANCER CELLS</p> <p>Lauren Turturice</p>	<p>THE EFFECT OF ASCORBIC ACID ON THE RATE OF WOUND HEALING, LIMB REGENERATION, AND EXPRESSION OF TGFB-1 AND COL1A1 IN AMBYSTOMA MEXICANUM</p> <p>Haleigh Paolucci</p>
PATTERSON 107	<p>ENVIRONMENTAL AND ECONOMIC IMPACT OF BITCOIN</p> <p>Jonas Clark</p>  	<p>MITIGATING WATER RUNOFF: THE ENVIRONMENTAL AND ECONOMIC IMPACTS OF GREEN ROOFS</p> <p>Breanna Becker</p> 	<p>THE ECONOMIC AND ENVIRONMENTAL IMPACT OF MINING CRITICAL MATERIALS</p> <p>Kellen Frazer</p> 	<p>DOES STIMULANT HISTORY AFFECT ACUTE NICOTINE RESPONSE</p> <p>Taylor Harman</p> 
PATTERSON 110	<p>DETERMINING YOUR LOCATION USING WI-FI</p> <p>Michael Tripp</p>	<p>A PILOT STUDY ON THE POTENTIAL REMEDIATION OF PFOA FROM WATER SOURCES</p> <p>Christopher Dombrowski</p>  	<p>THE EFFECTS OF EXTERNAL SHORT-TERM ESTRADIOL HORMONE TREATMENT ON REWARD SEEKING BEHAVIORS IN MALE RATS EXPOSED TO NICOTINE</p> <p>Aidan Guzma</p>  	<p>BIRTH CONTROL, COMPLEMENTS OF YOUR CPA</p> <p>Tiwan Jones</p>

URAC•2023 CONCURRENT ORAL PRESENTATIONS

PATTERSON CLASSROOMS

CONCURRENT MORNING SESSIONS — 10:00-11:20 AM

	10:00 AM	10:20 AM	10:40 AM	11:00 AM
PATTERSON 205	<p>A GAME WITH SHADOWS AND KNOTS</p> <p>Grace Bell</p>	<p>THE CHALLENGE OF BEAUTY WITHIN HORROR</p> <p>Hannah Burtner</p> 	<p>MARKETING STRATEGIES IN DIVISION III INTERCOLLEGIATE ATHLETICS: A CASE STUDY OF A PENNSYLVANIA LIBERAL ARTS INSTITUTION</p> <p>Riley Lewis</p>	<p>COLOR THEORY</p> <p>Kylee Shannon</p>
PATTERSON 207	<p>STEELERS VS. COMMANDERS VS. RAMS (IN A CPA'S EYES)</p> <p>Stephanie Cimini</p>	<p>SPORTS MANAGEMENT COMPETES IN NATIONAL CASE STUDY COMPETITION</p> <p>Kimberly Cora</p>	<p>THE EXPRESSION AND PURIFICATION OF 3' HEXO</p> <p>Braydon Gardner</p>	<p>PRODUCTION OF MUTANT SAMPLES OF ALPHA SYNUCLEIN FOR ELECTRON SPIN RESONANCE STRUCTURAL STUDY THROUGH PROTOCOL REFINEMENT.</p> <p>Emma Parker</p>
PATTERSON 210	<p>THE RECOVERY OF CRITICAL ELEMENTS FROM MAGNETS USING OSORB</p> <p>Ethan Cunningham</p>	<p>THE NEW ERA OF FNB FIELD</p> <p>Gia Francisco</p>	<p>TITAN WORKOUT TRACKER</p> <p>Jayneil Latham-Mason</p>	<p>PENNSYLVANIA INTERCOLLEGIATE HONORS BAND, THE PROCESS, THE PRODUCT</p> <p>Shelby Pocono</p>



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DIVERSITY AND SOCIAL JUSTICE AWARD CANDIDATE



HEALTH AND WELL-BEING AWARD CANDIDATE







PSYCHOLOGY/NEUROSCIENCE RESEARCH AWARD CANDIDATE

URAC•2023 CONCURRENT ORAL PRESENTATIONS

PATTERSON CLASSROOMS





CONCURRENT AFTERNOON SESSIONS — 1:30-2:50 PM

	1:30 PM	1:50 PM	2:10 PM	2:30 PM
PATTERSON 105	<p>THE ANTIMICROBIAL AND ANTIOXIDANT PROPERTIES OF KOMBUCHA</p> <p>Brynn Shetterly</p>	<p>A MINTY FRESH TAKE ON BUDGETING</p> <p>Paige Williams</p>	<p>ETNA'S GILDED AGE: FROM STREET TO SCREEN</p> <p>Stephen Adametz</p>	<p>MODELING FAULTS IN PHASOR MEASUREMENT UNITS USING LEAKY POWER DOMINATION</p> <p>Asia Morgenstern</p>
PATTERSON 107	<p>ELECTRIFICATION: GETTING YOU TO YOUR DESTINATION.</p> <p>Tyler Salvatore</p> 	<p>AN ECONOMIC AND ENVIROMENTAL PERSPECTIVE REGARDING PLASTIC RECYCLING: COMMENTARY ON FEASIBLE AND PROBABLE MEASURES.</p> <p>Felix Zamborsky</p> 	<p>AI GETS ITS DRIVER'S LICENSE - ANALYZING MACHINE LEARNING TECHNIQUES TO OPERATE AUTONOMOUS VEHICLES</p> <p>Brandon Hunsinger</p>	<p>REDUCTION OF STAPHYLOCOCCUS AUREUS BIOFILM USING SIHYBRIDS</p> <p>Kendra Trimbach</p>
PATTERSON 110	<p>FORGET JALEN HURTS AND PATRICK MAHOMES: THE REAL MVP IN THE NFL IS ENVIRONMENTAL SUSTAINABILITY</p> <p>Noah Yates</p>	<p>AUTOBIOGRAPHICAL EPISODIC MEMORY AND PERSONALITY</p> <p>Maranda Kline</p>  	<p>TACKLING BASIC KLONDIKE AGENTS</p> <p>Adam Silvis</p>	<p>5-FU INDUCES CALPAIN MEDIATED DISRUPTION OF NUCLEAR TRANSPORT IN CANCER CELLS.</p> <p>Emma Stewart</p>

URAC•2023 CONCURRENT ORAL PRESENTATIONS

PATTERSON CLASSROOMS

CONCURRENT AFTERNOON SESSIONS — 1:30-2:50 PM

	1:30 PM	1:50 PM	2:10 PM	2:30 PM
PATTERSON 205	COMMON CORE AND CHILD CENTERED EDUCATION Zion Posey  	BURNING SPIDERS WITH MATH Michael Tripp	RESTAURANT SUSTAINABILITY IN THE UNITED STATES MID- ATLANTIC REGION: A PARTNERSHIP WITH THE TAVERN ON THE SQUARE NEW WILMINGTON KayLee Hankins 	"MY GENES MADE ME DO IT": A HISTORY OF BIOLOGICAL THEORIES OF CRIME Lily Hefner 
PATTERSON 207	THE BEAUTY OF NATURE THROUGH LAND ART Sophia Galietta	GBY12-COUPLED SIGNALING IN GLIOBLASTOMA CELLS Emma Rudolph	CLONING SLBP FOR EXPRESSION IN MAMMALIAN CELL EXTRACT Miguel Joseph	TICKET AGGREGATOR WEBSITE Joseph Kozlina



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URAC•2023 FEATURED PODIUM PRESENTATIONS

MUELLER THEATER AND FACEBOOK LIVE

MORNING SESSION — 12:00-1:00 PM

12:00-12:25 PM	INVESTIGATING BREAKDOWN OF HISTONE MRNA USING ADVANCED MOLECULAR DYNAMICS Izayah Bojanac
12:30-12:55 PM	USING DIFFERENTIAL EQUATIONS TO MODEL A MASS ON A SPINNING WHEEL Austin O'Hara

AFTERNOON SESSION — 3:00-4:00 PM

3:00-3:25 PM	"WHAT MANNER OF MAN IS THIS?:" REPRESENTATIONS OF VAMPIRIC 'OTHERS' IN NINETEENTH-CENTURY LITERATURE Lauren Millhorn 
3:30-3:55 PM	AN ESG ANALYSIS OF STARBUCKS AND THE GLOBAL COFFEE INDUSTRY Cherise Schultz, Michael Phillips, Kent Dunn, Ryan Armstrong, Ashlyn Lang



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URAC•2023 RESEARCH ROUNDTABLES

PATTERSON FIRST AND SECOND FLOORS

CONCURRENT MORNING ROUNDTABLES — 10:00-10:45 AM

PATTERSON 108	<p>PUBLIC MEMORY IN THE EARLY 20TH CENTURY Faculty Moderator: Shannon Smithey </p> <p>REAGHAN WILKERSON, ISABELLA BUETTNER, AMBER CEPEC, GAVIN JONES</p>
PATTERSON 208	<p>PUBLIC MEMORY AND AFRICAN-AMERICAN ACTIVISM </p> <p>Faculty Moderator: Angela Lahr</p> <p>KEVIN WALKER, CHARLIE BAREFIELD, CASSANDRA EVANS</p>

CONCURRENT AFTERNOON ROUNDTABLES — 1:30-2:15 PM

PATTERSON 108	<p>JUSTICE FOR MINORITY INDIVIDUALS  </p> <p>Faculty Moderator: Kristianne Kalata</p> <p>CHLOE SMITH, ABIGAIL GUISTE, KEVIN WALKER</p>
PATTERSON 208	<p>SOCIETAL COLLECTIVE MEMORY SURROUNDING SCIENCE IN US HISTORY Faculty Moderator: Angela Lahr  </p> <p>EMMA PARKER, NATALIE ROSE, VICTORIA KATTLER, HALEY SIMCIC</p>

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URAC•2023 ART, MUSIC, & CREATIVE WORKS

McKelvey and Patterson

URAC•2023 ART, MUSIC & CREATIVE WORKS

MCKELVEY AND PATTERSON HALL

ART


Patterson Foster Art Gallery (Talk)	10:00 - 10:30 AM
	SENIOR CAPSTONE IN CERAMICS Kara Hutchinson 
McKelvey 3rd Floor Atrium (Display)	1:00 - 2:00 PM
	THE UNNATURAL IN NATURE Ryan Wasilko 

MAIN QUAD	9:00 AM - 4:00 PM
	WHERE THEY ARE FROM: A POETRY COLLECTION BY THE CLASS OF 2026
CULTURAL CENTER (McKelvey)	9:00 AM - 4:00 PM
	SCRAWL SPRING 2023 RELEASE TABLE
	12:00 - 1:00 PM
	SIGMA TAU DELTA POETRY SLAM
	1:00 - 2:00 PM
	SCRAWL RELEASE PARTY

URAC•2023 ART, MUSIC & CREATIVE WORKS

MCKELVEY AND PATTERSON HALL

MUSIC

McKelvey Tub	9:00-9:15 AM
	WESTMINSTER COLLEGE BARBERSHOP CLUB Charles Lisella, Tim Mulcahy, Max Smith, Kole Alcorn, Liam Chute, Michael Everhart
Orr Auditorium	11:00-11:15 AM
	WESTMINSTER COLLEGE PERCUSSION ENSEMBLE Ian Herr, Ryan Bramson, Jada Brown, Stephen Kaib, Dylan Kresak, Katie Lyons, Lauren McTiernan, Madison Mueller-Howell, Ryan Shaw, Shannon Witkowski
Patterson 210	1:30-2:15 PM
	ONE-MAN BAND (WHAT I'VE LEARNED MY FIRST YEAR AT WESTMINSTER COLLEGE) Michael Everhart 
McKelvey Tub	3:00-3:15 PM
	MARKET STREET BRASS QUINTET Charles Lisella, Timothy Mulcahy, Alayna Ford, Jeremy Beckinger, Isabella Dienes



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The background of the entire page is a photograph of Thompson Clark Hall at Westminster College. It is a large, multi-story stone building with a prominent central tower featuring arched windows. The building is surrounded by greenery and a clear blue sky with some light clouds.

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URAC•2023



VIDEO SCREENINGS

McKelvey

URAC•2023 VIDEO SCREENINGS

MCKELVEY

VIDEO SCREENINGS — 9:00-10:00 AM

Mueller Theater	9:00-9:30 AM
	CREATIVE MEDIA PRODUCTION'S SHORT CUTS FILM FESTIVAL Brittany Marburger, Kevin Ivany, Adrienne Offutt, Hamish Mathwin, Rob King, Noah Wolford
	9:30 AM
	BUNKER Hamish Mathwin, Bethany Edwards, Emma Gurley, Sabrina Slagle, Kevin Ivany, Mason Peck, Dani Soloski, Max Robinson, Ryan Thibault
	9:45 AM
	 SANCTUARY Kevin Ivany, Hamish Mathwin, Saige Heigel, Riley Lewis, Vincent Funari, Brett Willcox, Marcus Tokar 
	9:55 AM
	ENCORE Cody Vetter, Bethany Edwards, Jack Mickle, Reid Sanderson, Emily Reed
























FOCUS GROUPS: DOCUMENTARY PREVIEWS

	9:00-10:00 AM	11:00 AM-12:00 PM	1:00-2:00 PM	3:00-4:00 PM
McKelvey 275	Saige Heigel, Marcus Tokar	Ashley Baldwin, Bethany Edwards, Riley Lewis	Maxwell Robinson, Alex Marinski, Mark Mangino	Ryan Thibault, Andrew Tedesco, Alex Nyiri

URAC•2023 VIDEO SCREENINGS

MCKELVEY

BIRDTOK VIDEOS —11:00 AM-12:00 PM

Mueller Theater		TWO BEGINNER BIRDERS CONNECT MINDFULNESS TO BIRDING Danielle Soloski	
		THE BIRDING EXPERIENCE Nathan Kacey	
		SAVE YOURSELF AND HELP SAVE THE BIRDS Kendra Granchi	
		STUDENT-ATHLETE TURNS BIRDER Jordan Zupko	
		WONDERS OF AN INVISIBLE SOCIETY: BIRDS Connor Dale	
		MORE THAN JUST A HOBBY Malia Duffy	
		LEAVING A "MARC"-US ON ORNITHOLOGY Patrick Ekeu, Marcus Diniaco	
		THE BEST WAY TO LEARN IS TO GET OUTSIDE AND BIRD Saige Heigel	
		BIRDING: THE IMPACT ON EVERYDAY (AND NOT JUST RETIRED) LIFE Olivia Herman	
		THE BENEFITS, BEAUTIES, AND BENEVOLENCE OF BIRDING Daniel Horgan	
		THE BIRD WORLD, PEACE, AND CONSERVATION AWARENESS Ashlyn Lang	
		LINDSEY GOES BIRDING FOR FIRST TIME WITH WC BIRDER NOAH Noah Sofran	
		CHANGING YOURSELF, SOCIETY, AND THE PLANET BY BIRDING Paige Williams	
		BRING MY BUDDY BIRDING Kaylee Madey	
		BIRDING BUDDIES Payton Waight, Mike Roman	



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URAC•2023

PUBLIC SPEECH & DEBATE

Berlin Lounge

URAC•2023 PUBLIC SPEECH & DEBATE

BERLIN LOUNGE

PUBLIC SPEECHES — 12:00-1:30 PM

12:00-12:10 PM	12:10-12:20 PM	12:20-12:30 PM
FREE THE SLAVES, AGAIN  Erin Fosgreen	ESCAPING THE RADICAL CAGE: A PERSASUSIVE Iris Davis Hall	JUST SAY NO TO DRUG ADVERTISING Krysta Germanoski 
12:30-12:40 PM	12:40-12:50 PM	12:50-1:00 PM
AUTISM SPEAKING: A POETRY PROGRAM  Tyler Hunter 	THE NOTORIOUS RBG AND THE RHETORIC OF FASHIONABLE DISSENT  Katie Magee	FOSTERING IDENTITY  Alyjah McHugh 
1:00 PM- 1:10 PM	1:10-1:20 PM	1:20-1:30 PM
NON-FICTIONAL HEROES Jaden Sowers 	I'M JUST A BILL: THE AMERICAN LEGISLATIVE EXCHANGE COUNCIL EXPOSED Makyla Wheeler	WAR TOLD IN WORDS: EXPLORING THE MINDS OF CONSCRIPTED MEN THROUGH PROSE INTERPRETATION Izayah Bojanac



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URAC•2023 PUBLIC SPEECH & DEBATE

BERLIN LOUNGE

GROUP EVENTS

1:30-2:30 PM

READERS THEATER: BANNED IN THE USA: GIVING VOICE TO THE VOICELESS



Jaden Sowers, Iris Davis Hall, Tyler Hunter, Makyla Wheeler, Ellis Moore, Katie Magee, Kent Dunn, Alyjah McHugh

3:00 -4:00 PM

PARLIMENTARY DEBATE

Iris Davis Hall, Izayah Bojanac, Sean Casey, Kent Dunn, Ellis Moore, Alyjah McHugh, Krysta Germanoski, Katie Magee



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Krysta Germanoski '24

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- Environmental Studies

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- Solar Panel Array
- Successional Plots
- Water Quality



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- Modules in liberal arts courses
- Outdoor STEM camp
- Summer community programming

Outdoor Facilities:

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- Nature Center
- College Woods
- Brittain Lake

Outdoor Educational Resources:

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- Bill and Virginia Offutt Microforest
- Bird Blind
- Composting
- Edmiston Labyrinth
- Lucile B. Frey Nature Trail
- "Meg" Rankin Garden
- Tiny House Project
- Wind Turbine

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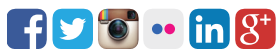
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