



URAC • 2022

UNDERGRADUATE RESEARCH & ARTS CELEBRATION

Poster Presentations,
Oral Presentations,
Research Roundtables,
Art & Creative Performances,
Video Screenings and Other Events

WEDNESDAY, APRIL 27, 2022

Sponsored by The Drinko Center for Undergraduate Research



WESTMINSTER COLLEGE

WELCOME TO URAC 2022!

Westminster College is proud to host the 2022 Undergraduate Research and Arts Celebration. This signature event allows the Westminster Community to share, discuss, and learn about hundreds of topics, and this year we are excited to have these interactions occur in a face-to-face environment once again. Today, approximately 300 students will present their research and creative projects across campus via oral presentations, research roundtables, poster sessions, videos, 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 2022 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 2022 will be their first formal presentation in college, and for others, participating in URAC 2022 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 2022 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

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#WCURAC
experience!



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URAC 2022

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EVENT SCHEDULE

9AM - 4 PM	WHERE THEY ARE FROM: A POETRY COLLECTION BY THE CLASS OF 2025 Quad
9 - 10 AM	CONTINUOUS SCREENING: THE ENVIRONMENTAL ARTIST PODCAST PROJECT Patterson Hall 2nd Floor
9 - 10:30 AM	POSTER SESSION A Witherspoon Rooms
9:30 - 10:15 AM	VIDEO SCREENINGS Mueller Theater
9:30 - 10:30 AM	CONCURRENT RESEARCH ROUNDTABLES Patterson 1st and 3rd Floor
9:30 - 10:45 AM	DIGITAL HISTORY EXHIBITION Patterson 207
10 - 11 AM	CONCURRENT ORAL SPEAKERS Patterson 1st & 2nd Floor
10:30 AM - 12:30 PM	RESEARCH FOCUS GROUP McKelvey 275
10:45 - 11 AM	SPEECHES & PARLIAMENTARY DEBATE Berlin Lounge
11 AM - 12 PM	PERFORMANCE: TRUMPET ENSEMBLE McKelvey Tub
11 AM - 12:15 PM	POSTER SESSION B Witherspoon Rooms
11 AM - 1 PM	FEATURED PODIUM PRESENTATION SPEAKERS Mueller Theater and Livestream
12 - 1 PM	WORKSHOP: GENDER BALANCED TEAMS IN THE PROFESSIONAL WORKPLACE Patterson 210
12:15 - 1:15 PM	ART GALLERY TALKS Patterson Foster Art Gallery
12:45 - 1 PM	SCRAWL RELEASE McKelvey Tub
1 - 2 PM	RESEARCH FOCUS GROUP McKelvey 275
1:30 - 2:15 PM	SCRAWL & SIGMA TAU DELTA PRESENT: STUDENT ARTISTIC PERSPECTIVES Mueller Theater
1:30 - 2:30 PM	PERFORMANCE: BARBERSHOP CLUB McKelvey Tub
1:30 - 2:45 PM	POSTER SESSION C Witherspoon Rooms
1:45 - 2 PM	ART DISPLAYS McKelvey 3rd Floor Atrium
2 - 3 PM	CONCURRENT RESEARCH ROUNDTABLES Patterson 3rd Floor
3 - 4 PM	VIDEO SCREENINGS Mueller Theater
	CONCURRENT ORAL SPEAKERS Patterson 1st & 2nd Floor
	PERFORMANCE: SWEET TREBLES McKelvey Tub
	PANEL: HOW TO GET STARTED IN RESEARCH Berlin Lounge
	RESEARCH FOCUS GROUP McKelvey 275
	FEATURED PODIUM PRESENTATION SPEAKERS Mueller Theater and Livestream
	POSTER SESSION D Witherspoon Rooms

**Student
Presenters
and all URAC
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.

<https://www.surveymonkey.com/r/URAC2022>

Survey must be completed by Wednesday May 11th
to be eligible for prize drawing.



Survey:



URAC•2022 POSTER PRESENTATIONS

Witherspoon Rooms

URAC•2022 POSTER PRESENTATIONS

POSTER
NUMBER TITLE

RESEARCHER(S)

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SESSION A — 9-10 AM

A1	Addicted to Coffee? What really goes into a cup of coffee.	Gavin Batdorff, Luke Postufka, Reid Sanderson, Corbin Liang		Robert Zullo
A2	Model UN Chicago Trip 2022	Theodore Curcio		Michael Aleprete
A3	Social Media and Apology: A Case Study Analysis of Influencer Apologies	Annalisa Echevarria		Brittany Rowe-Cernevicius
A4	Sustain-a-beauty	Krysta Germanoski Abigail Cannon, Breannnda Davis, Madillynn Kerr		Robert Zullo
A5	Minecraft Effects on Attention, Mental Rotation, and Manual Dexterity	Charles Gordon		Loreen Huffman
A6	Air Pollution in California	KayLee Hankins, Patrick Benedict, Reid Sanderson, Adam Coppins, Brody McGuinness	  	Keith Bittel
A7	Constitutional Design of Eastern European States and its Influence on their Economies, Governmental Structure, and Social Stability	Mitchel Henderson		Shannon Smithey
A8	Examining Bisphenol S exposure in zebrafish embryos and its effects on their cardiac development and fitness	Anna Grimenstein		Marosh Furimsky
A9	Crack Open an Eco-Friendly Cold One	Jacob Mack, Joseph Antuono, Joe Somora, Luke Persinger		Robert Zullo
A10	Environmental Impact of Cryptocurrency	Matthew Kane, David Kelly, Mitchell Myers, Jordan Roser	 	Keith Bittel
A11	Fabry Disease - A Potentially Life-Threatening Genetic Condition	Cole Konieczka, Ian Barr		John Robertson
A12	Amelogenesis Imperfecta: Causes, Treatments, and Effects	Ava Krensky		John Robertson
A13	5-Fluorouracil and Gemcitabine Alter Nuclear Transport	Emily Lamark		Karen Resendes
A14	Fabrication and Implementation of an Underwater ROV to Identify Fish Species in Brittain Lake	Carinna Lapson		Craig Caylor
A15	Modeling Magnetic Flux expulsion in SRF Cavities	Owen Meilander		Craig Caylor
A16	Analysis of Antioxidant Levels in Commercial and Locally Brewed Beer	Jacob Musselman		Jessica Sarver
A17	The Pueblo Revolt of 1680, Social Identity, and Pueblo Culture	Makenzie Snarey		Angela Lahr
A18	Consumerism: Its Past, Present, and Our Future	Ashley Tarter	  	Trisha Cowen

POSTER

NUMBER TITLE

RESEARCHER(S)

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A19 Differences in the Clinical Forms of Multiple Sclerosis Abigail Westcott John Robertson

SESSION B — 11 AM-12 PM

B1 Environmental Entrepreneurship: Westminster Bee Company Matthew Kane, Victoria Harden, Baylee Horvath, Nathan Kacey, Trevor McCabe, Megan Miller, Shea O'Donnell, Tyler Sportelli, Tomi Taiwo Helen Boylan



B2 Etna, PA: History of a Gilded Age Steel Town Stephen Adametz Trisha Cowen

B3 Decreasing Workplace Violence Rebecca Adelman, Alex Hartle, Kelly Somora Tricia Ryan



B4 Stress Levels and Time Management Among Student Athletes In and Out of Season and Non-Student Athletes Madison Brown Sherri Pataki



B5 Capacity Management: Discharge Planning Krystyna Burdelski, Alexandra Pfab Joni Darby



B6 Apiary Branding and Advertising: Group 1 "Fly Honeys" Sean Davis, Sabrina Slagle, Gino Ginocchi Kandice Hartner



B7 Why Are We Using Fossil Fuels? Christopher Dombrowski, Callie Beck, Payton Waight, Megan Miller Keith Bittel



B8 Rape Myth Acceptance Using Gender Neutral Language Jill Douglas, Regan Kelly Jessica Rhodes



B9 Apiary Branding and Advertising campaign Annalisa Echevarria, Christopher Power, Jacob Merkel, James Boyle Kandice Hartner



B10 Structure of the pyloric cecum in Atlantic sturgeon James Gilbert John Robertson

B11 Decreasing Left Without Being Seen Rates in Emergency Rooms Joshua Hutcherson, Dom Mymo Tricia Ryan



B12 Reducing Falls and Falls with Injury Nicole Grzebyk, Forest Mills Tricia Ryan



B13 The Effect of Appointing President on Judicial Vote Patterns: A Case Study of Judicial Decision Making and Opinion Language Alexis Jones Shannon Smithey

B14 Beers of the Year: Sustainable Beer Practices Hunter Linhart, David Gearhart, David Kelly, Josh Kurtz Robert Zullo

B15 Improving Rapid Response Documentation Alexa Hutchinson, Eva Hagg Joni Darby



NURSING CAPSTONE PRIZE CANDIDATE



HEALTH AND WELL-BEING AWARD CANDIDATE



DIVERSITY AND SOCIAL JUSTICE AWARD CANDIDATE



ENVIRONMENTAL PRIZE CANDIDATE

POSTER NUMBER	TITLE	RESEARCHER(S)	FACULTY SPONSOR
B16	The effects of beta-alanine on axolotl limb regeneration and mmp9 expression	Caitlyn Mattocks, Allison Sherman	Joshua Corrette-Bennett
B17	Generation of Unsustainable Waste - Single Use Plastic	Jacob Musselman, Chloe Buckley, Hannah Plowman, Luke Postufka	Keith Bittel
B18	Biofilm Found in Mouths with Gingivitis	Jimmy Oberlin, Ovi Deivaprakash	John Robertson
B19	The Relationship between Self-esteem and Prejudice Toward Inter-racial Couples	Joseph Rosa	Loreen Huffman
B20	The effect of emotional intelligence as a mediator of shyness and depression with overall life satisfaction	Bennett Webster	Loreen Huffman
B21	Effects of Nicotine Exposure on Anxiety in Female Adolescent Rats	Abigail Westcott	Deanne Buffalari

SESSION C — 1-2 PM

C1	Environmental Entrepreneurship: Westminster Bee Company	Matthew Kane, Victoria Harden, Baylee Horvath, Nathan Kacey, Trevor McCabe, Megan Miller, Shea O'Donnell, Tyler Sportelli, Tomi Taiwo	Helen Boylan
C2	Interrelationships Between Anxiety Symptoms, ADHD Symptoms, & Nicotine Use	Sam Accordino	Jessica Rhodes
C3	SLOW DAHN! How car brands are using sustainable marketing to save the environment	Patrick Benedict, Laine Puhl, Cherise Schultz, Colleen Kinney, Patrick Benedict	Robert Zullo
C4	Partisanship and COVID-19 Vaccination Rates Across Counties in Texas	Jaclyn Buda	Shannon Smithey
C5	Analysis of delta8-THC in Commercially Available Products by Reverse Phase HPLC	Jamieson Elia	Helen Boylan
C6	Characterizing Gill Pigmentation in Juvenile Atlantic Sturgeon	Mark Eminhizer	John Robertson
C7	Voter Suppression; Voter I.D Laws before and after Shelby County v. Holder (2013)	Marc Esqueda	Shannon Smithey
C8	Reducing Clostridium Difficile Infection Rates at UPMC Jameson	Jessica Fellion, Emily Bright, Kali Ternitsky	Joni Darby
C9	High concentrations of cannabinal significantly decreases survival of the mealworm, Tenebrio molitor	Emily Gagliordi	Ann Throckmorton
C10	Detection and Output of Sign Language using TinyML on a Sony Spresense	Bryce Hayes	Craig Caylor
C11	Making municipal recycling work	Ashlyn Lang, Tomi Taiwo, Rob Schrantz, Luke Persinger	Keith Bittel

POSTER NUMBER	TITLE	RESEARCHER(S)	FACULTY SPONSOR
C12	CLABSI's in Healthcare	Joy Snow, Juliana Sienkiewicz	 Tricia Ryan
C13	The Summa Cum Laude of Sustainability	Grace Matson, Jayden Benjamin, Dylan Hanna, Dwight Parker	  Robert Zullo
C14	Applications of Electrowetting	Owen Meilander	Craig Caylor
C15	Neuromyelitis Optica Reveals Interactions Between the Central Nervous System and Visual System	Katherine Mozelewski, Lindsey Wheaton	John Robertson
C16	Improving the Compliance of Reporting Critical Lab Results.	Reagan Olson, Jonathan Micsky	 Joni Darby
C17	Defense Attorneys and Probation	Lillian Quick	 Shannon Smitley
C18	Reducing Catheter Associated Urinary Tract Infections on Inpatient Hospital Units	Gabrielle Weaver, Brianna Powell	Tricia Ryan
C19	Reducing Complications and Hospital Readmissions After Total Joint Replacements	Madison Sieczkowski, Jocelyn Behr	 Tricia Ryan
C20	Social Media and Influencer Marketing: A Case Study Analysis of the "Lonely Ghost" Brand	Maya Thornton	 Brittany Rowe-Cernevicius
C21	Try Jesus, Not Drugs!: Young Adults and the Billy Graham Crusades During the Long 1960s	Ivy Withers	Angela Lahr

SESSION D — 3-4 PM

D1	Environmental Entrepreneurship: Westminster Bee Company	Matthew Kane, Victoria Harden, Baylee Horvath, Nathan Kacey, Trevor McCabe, Megan Miller, Shea O'Donnell, Tyler Sportelli, Tomi Taiwo	  Helen Boylan
D2	Cleft Lip and/or Cleft Palate	Michaela Duke	John Robertson
D3	Comparing the Coagulation Mechanisms of Two Coagulation Disorders	Emily Gagliardi Hannah Meeks	John Robertson
D4	Apiary Brand and Advertising Campaign: The "Bee" in Westminster	Daniel Horgan, Jack Karson, Saige Heigel, Tim Spicer	  Kandice Hartner
D5	Low Self-Esteem and Nicotine Dependence Mediated by Narcissistic Traits	Annalynn Lalama	Jessica Rhodes



FIRST-YEAR PRIZE CANDIDATE



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HEALTH AND WELL-BEING AWARD CANDIDATE



DIVERSITY AND SOCIAL JUSTICE AWARD CANDIDATE



ENVIRONMENTAL PRIZE CANDIDATE

POSTER NUMBER TITLE RESEARCHER(S) FACULTY SPONSOR

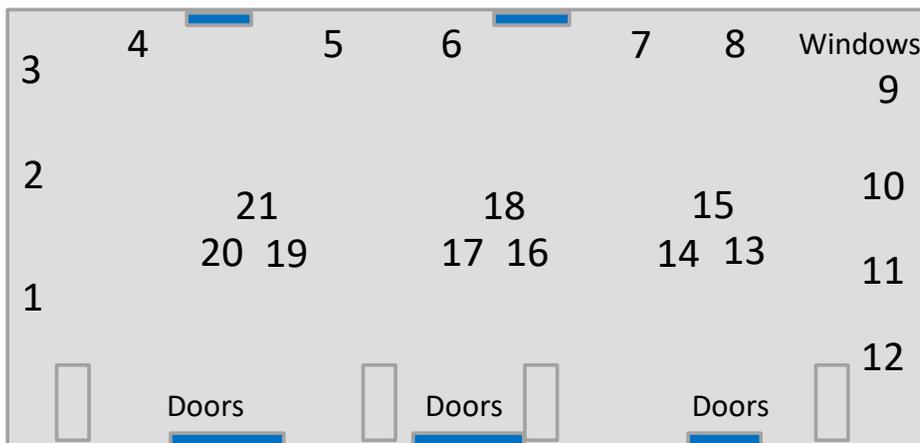
D6	Social Anxiety and Nicotine Dependence: Viewing the Relationship via Anticipatory Anxiety	Lauren Lindemuth		Jessica Rhodes
D7	Nationalism in the Indian Mutiny of 1857	Peyton Mackinlay		Shannon Smithey
D8	Impact of various concentrations of cannabidiol on mealworm, <i>Tenebrio molitor</i> , metamorphosis and mortality	Hannah Meeks		Ann Throckmorton
D9	Economical Quadcopter Drone with Thermal Camera and Image Recognition	Casey Mezerkor		Craig Caylor
D10	D&D Character Application	Andrew Perry		John Bonomo
D11	Compassionate Release: Factors that Affect Public Perceptions on Capital Punishment	Jessica Reabe		Kristin Park
D12	Micro:bit in the Classroom	John Lima		Craig Caylor
D13	STAT3 nuclear accumulation due to loss of RanBP2 may contribute to pathogenesis of acute necrotizing encephalopathy	Emilee Spozarski		Karen Resendes
D14	Hemophilia A and Von Willebrand Disease	Megan Strohmenger		John Robertson
D15	Exercise to Mitigate Symptoms of Attention-Deficit/Hyperactivity Disorder through Improving Executive Functioning	Shannon Sullivan		Jessica Rhodes
D16	Environmentally Sustaining Entertainment	Meilin Titus, Joshua Smith, Gabriel Diulus, Peyton Pauline, Josue Charles		Robert Zullo
D17	The Effects of Confinement and Molecular Regulation on Biomineralization	Jenna Toohey		Erin Wilson
D18	PCID2 assists in the nuclear export of nucleophosmin (NPM) in HeLa cells.	Nevan Schwab		Karen Resendes
D19	Exposure to Bisphenol F Leads to Developmental and Cardiovascular Abnormalities in Zebrafish	Lindsey Wheaton		Marosh Furimsky
D20	Cultural Repatriation: A Comparative Case Study of the United Kingdom, New Zealand, Spain, and Peru	Hannah Wilson		Shannon Smithey
D21	Anxiety Sensitivity as a Moderator in the Relationship Between State Anxiety and Nicotine Craving	Lydia Weisberg		Jessica Rhodes



INDEX OF POSTER PRESENTERS

PRESENTER	POSTER #	PRESENTER	POSTER #	PRESENTER	POSTER #
Sam Accordino	C2	Eva Hagg	B15	Jacob Merkel	B9
Stephen Adametz	B2	KayLee Hankins	A6	Casey Mezerkor	D9
Rebecca Adelman	B3	Dylan Hanna	C13	Jonathan Micsky	C16
Joseph Antuono	A9	Victoria Harden	B1, C1, D1	Megan Miller	B7
Ian Barr	A11	Alex Hartle	B3	Forest Mills	B12
Gavin Batdorff	A1	Bryce Hayes	C10	Katherine Mozelewski	C15
Callie Beck	B7	Saige Heigel	D4	Jacob Musselman	A16, B17
Jocelyn Behr	C19	Mitchel Henderson	A7	Mitchell Myers	A10
Patrick Benedict	A6, C3	Daniel Horgan	D4	Dom Mymo	B11
Jayden Benjamin	C13	Baylee Horvath	B1, C1, D1	Shea O'Donnell	B1, C1, D1
James Boyle	B9	Joshua Hutcherson	B11	Jimmy Oberlin	B18
Emily Bright	C8	Alexa Hutchinson	B15	Reagan Olson	C16
Madison Brown	B4	Alexis Jones	B13	Dwight Parker	C13
Chloe Buckley	B17	Nathan Kacey	B1, C1, D1	Peyton Pauline	D16
Jaclyn Buda	C4	Matthew Kane	A10, B1, C1, D1	Andrew Perry	D10
Krystyna Burdelski	B5	Jack Karson	D4	Luke Persinger	A9, C11
Abigail Cannon	A4	David Kelly	A10	Alexandra Pfab	B5
Josue Charles	D16	Regan Kelly	B8	Hannah Plowman	B17
Adam Coppins	A6	David Kelly	B14	Luke Postufka	A1, B17
Theodore Curcio	A2	Madillynn Kerr	A4	Brianna Powell	C18
Sean Davis	B6	Colleen Kinney	C3	Christopher Powers	B9
Breannnda Davis	A4	Cole Konieczka	A11	Lainee Puhl	C3
Ovi Deivaprakash	B18	Ava Krensky	A12	Lillian Quick	C17
Gabriel Diulus	D16	Josh Kurtz	B14	Jessica Reabe	D11
Christopher Dombrowski	B7	Annalynn Lalama	D5	Joseph Rosa	B19
Jill Douglas	B8	Emily Lamark	A13	Jordan Roser	A10
Michaela Duke	D2	Ashlyn Lang	C11	Reid Sanderson	A1, A6
Annalisa Echevarria	A3, B9	Carinna Lapson	A14	Rob Schrantz	C11
SJamieson Elia	C5	Corbin Liang	A1	Cherise Schultz	C3
Mark Eminhizer	C6	John Lima	D12	Nevan Schwab	D18
Marc Esqueda	C7	Lauren Lindemuth	D6	Allison Sherman	B16
Jessica Fellion	C8	Hunter Linhart	B14	Madison Sieczkowski	C19
Emily Gagliordi	C9, D3	Jacob Mack	A9	Juliana Sienkiewicz	C12
David Gearhart	B14	Peyton Mackinlay	D7	Sabrina Slagle	B6
Krysta Germanoski	A4	Grace Matson	C13	Joshua Smith	D16
James Gilbert	B10	Caitlyn Mattocks	B16	Makenzie Snarey	A17
Gino Ginocchi	B6	Trevor McCabe	B1, C1, D1	Joy Snow	C12
Charles Gordon	A5	Brody McGuinness	A6	Joe Somora	A9
Anna Grimenstein	A8	Hannah Meeks	D3, D8	Kelly Somora	B3
Nicole Grzebyk	B12	Owen Meilander	A15, C14	Tim Spicer	D4
				Tyler Sportelli	B1, C1, D1
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				Megan Strohmer	D14
				Shannon Sullivan	D15
				Tomi Taiwo	B1, C1, C11, D1
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				Kali Ternitsky	C8
				Maya Thornton	C20
				Meilin Titus	D16
				Jenna Toohey	D17
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				Hannah Wilson	D20
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POSTER SESSION MAP:



Emilee Spozarski	D13
Megan Strohmer	D14
Shannon Sullivan	D15
Tomi Taiwo	B1, C1, C11, D1
Ashley Tarter	A18
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Lindsey Wheaton	C15, D19
Hannah Wilson	D20
Ivy Withers	C21

2022 STUDENT SYMPOSIUM ON THE Environment

Sponsored by Center for the Environment at Westminster College
and the Slippery Rock Watershed Coalition

Thursday, December 1st, 2022

5:30–7:30 p.m. Networking & Poster Session

7:30–9:00 p.m. Oral Presentations

Featuring an On-line Video Showcase and Photo Competition

The Student Symposium on the Environment is held each December at Westminster College to highlight environmental study, research, artistic expression, and service work being done by students in the region. Students from all disciplines, ranging from high school through graduate school, are encouraged to participate. Research posters, art work, oral presentations, and even performances are welcome.

Call for participants available in October

www.westminster.edu/environmental-symposium



WESTMINSTER COLLEGE

URAC•2022

ORAL PRESENTATIONS &
RESEARCH ROUNDTABLES

Mueller Theater and Patterson Classrooms

URAC•2022 FEATURED PODIUM PRESENTATIONS

MUELLER THEATER AND LIVESTREAM

MORNING SESSION — 11:00 AM-12:00 PM

11:00-11:25 AM	MAGIC, MAYHEM, AND WOMANHOOD: THE RECLAMATION OF THE WITCH IN MODERN FANTASY BY WOMEN AUTHORS Molly Frank 
11:30-11:55 AM	PCID2 FACILITATES THE NUCLEAR EXPORT, BUT NOT THE CENTROSOMAL LOCALIZATION, OF BRCA2 IN HS578T BREAST CANCER CELLS Noah Pollio

AFTERNOON SESSION — 3:00-4:00 PM

3:00-3:25 PM	WHAT BELIEFS AND ATTITUDES DO GENDER DIVERSE COLLEGE STUDENTS HAVE REGARDING SEXUAL ASSAULT AND RAPE MYTHS ON CAMPUS? Jill Douglas   
3:30-3:55 PM	ARGUMENTATIVE NON-ARGUMENT: THE COMBATITIVE RHETORIC OF MARJORIE TAYLOR GREENE Iris Davis Hall

 ENVIRONMENTAL PRIZE CANDIDATE

 DIVERSITY AND SOCIAL JUSTICE AWARD CANDIDATE

 HEALTH AND WELL-BEING AWARD CANDIDATE

 PSYCHOLOGY/NEUROSCIENCE RESEARCH AWARD CANDIDATE

URAC•2022 CONCURRENT ORAL PRESENTATIONS

PATTERSON CLASSROOMS

CONCURRENT MORNING SESSIONS — 9:30-10:50 AM

	9:30 AM	9:50 AM	10:10 AM	10:30 AM
PATTERSON 105	<p>EFFECTS OF ACUTE NICOTINE EXPOSURE ON ANXIETY-LIKE BEHAVIOR IN RATS CHRONICALLY EXPOSED TO METHYLPHENIDATE</p> <p>Sam  Accordino</p>	<p>TESTING SALIVARY CORTISOL AND COGNITION IN THE CONTEXT OF ATTENTION RESTORATION THEORY AND STRESS REDUCTION THEORY</p> <p>Braden  Minter</p>	<p>VISUALIZING 3-D MATHEMATICS WITH COMPUTER GRAPHICS</p> <p>Mark  LeBlanc</p>	<p>ZERO: THE STORY OF NOTHING</p> <p>Kayleigh  Trobek</p>
PATTERSON 107	<p>SYNTHESIS AND CHARACTERIZATION OF COBALT, IRON, AND EUROPIUM-SUBSTITUTED ALUMINUM PHOSPHATE CATALYSTS FOR THE PARTIAL OXIDATION OF CYCLOHEXANE</p> <p>Seth  Schrader</p>	<p>HOW DEFICITS IN EXECUTIVE FUNCTIONING MEDIATE THE RELATIONSHIP BETWEEN ADHD SYMPTOMS AND DECREASED EMOTIONAL COGNITION</p> <p> Emma  Bradley</p>	<p>THE SURE FI/RE WAY TO BECOMING FINANCIALLY FREE</p> <p>Meilin Titus, Ryan  Beard, Noah Luzader</p>	<p>WHY DO WE NEED STUDENT LOANS AND HOW DO I GET RID OF THEM?</p> <p>Carsyn Jack, Eibhlin  Terrell, Kenny Garvey</p>
PATTERSON 205	<p>THE GRADUATE: AN ILLUSTRATION OF PSYCHOLOGICAL AND CLASSIST MOTIVATIONS</p> <p>Lauren  Millhorn</p>	<p>Q METHODOLOGY FOR THE MODERN WORLD</p> <p>Benjamin  Pluymers</p>	<p>LETS GET OUR FOOT THROUGH THE DOOR</p> <p>Luke Clark, Madison  Macura, Matthew Costello</p>	<p>THE EFFECTS OF TOPIRAMATE ON THE DEVELOPMENT OF THE NERVOUS SYSTEM USING ZEBRAFISH AS A MODEL ORGANISM</p> <p> Magen  Polczynski</p>
PATTERSON 208	<p>THE SEARCH FOR PYRUVIC ACID IN THE INTERSTELLAR MEDIUM</p> <p>Riana  Smith</p>	<p>THE HEALTH OF LAWRENCE COUNTY IMMIGRANTS</p> <p> Ryan  Armstrong</p>	<p>THE IMPACT OF WEIGHT AND PHYSICAL DISABILITY ON PERSON PERCEPTION</p> <p>Mackenzie  Hupp</p>	<p>CAREFULLY AND JUSTLY?: ETHNICITY, GENDER, AND THE DISTRIBUTION OF THE AMERICAN RED CROSS' EMERGENCY RELIEF TO TITANIC SURVIVORS</p> <p>Gabrielle  Lucas</p>

URAC•2022 CONCURRENT ORAL PRESENTATIONS

PATTERSON CLASSROOMS

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

	1:30 PM	1:50 PM	2:10 PM	2:20 PM
PATTERSON 105	<p>INSURANCE 101: PROTECTING YOUR FUTURE BY PLANNING EARLY</p> <p>Adam Saunders, Angelesa Desatnik, Anastasia Woosley</p>	<p>SUSTAINABLE SWEETENER: UNDERSTANDING MICROPLASTIC CONTAMINATION IN HONEY AND GAUGING INTEREST IN POTENTIAL LOCAL HONEY CO-OP</p> <p> Sara Small </p>	<p>CLASS-BASED STUDENT PERSPECTIVES ON SCIENCE-BASED ART</p> <p>Amy Tutt </p>	<p>COLORISM IN HIP-HOP MUSIC THROUGH BLACK AND WHITE PEOPLE PERCEPTIONS</p> <p>Shaemour Young </p>
PATTERSON 107	<p>FROM RECEPTORS TO REVISERS: READERS IN THE CRUSO(E) NARRATIVE</p> <p>Lauren Millhorn</p>	<p>EFFECTS OF AGGRESSION ON THE CLINICAL OBSERVATIONS OF CHRONIC TRAUMATIC ENCEPHALOPATHY IN DIII NCAA ATHLETES</p> <p> Molly Reilly </p>	<p>I SCHEDULED URAC USING PROGRAMMING AND MATH</p> <p>Michael Rezk</p>	<p>EFFECTS OF CHRONIC EXERCISE ON AVOIDANCE CONDITIONING IN MALE AND FEMALE RATS</p> <p>Abigail Steinbeck </p>

 ENVIRONMENTAL PRIZE CANDIDATE

 DIVERSITY AND SOCIAL JUSTICE AWARD CANDIDATE

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URAC•2022 CONCURRENT ORAL PRESENTATIONS

PATTERSON CLASSROOMS

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

	1:30 PM	1:50 PM	2:10 PM	2:20 PM
PATTERSON 205	<p>PLASTIC, PLASTIC, PLASTIC,... WHAT SHOULD BE DONE WITH IT?</p> <p>Meilin Titus, Eibhlin Terrell, Matthew Costello, Grace Deschand, Adam Saunders</p>	<p>COMPARISON OF ANTIMICROBIAL ACTIVITY IN HOME-BREWED AND STORE-BOUGHT KOMBUCHA USING THE SPECIMEN ESCHERICHIA COLI</p> <p>Sydney Rankin</p>	<p>THE EFFECTS OF METHADONE AND NICOTINE ON SEVERITY OF ANXIETY-LIKE BEHAVIOR AND SOMATIC BEHAVIORAL SYMPTOMS FOLLOWING WITHDRAWAL IN SPRAGUE DAWLEY RATS</p> <p> Hattie Shrock </p>	<p>A CULTURAL CRITIQUE OF LIBERAL ARTS EDUCATION THROUGH THE LENS OF EMBODIED REALISM AND 4E COGNITIVE SCIENCE: A PHILOSOPHICAL RECONSTRUCTION</p> <p>Kayleigh Trobek</p>
PATTERSON 207	<p>PREVENTING DEMENTIA: THE IMPACT OF SLEEP QUALITY ON COGNITIVE FUNCTION IN WESTMINSTER COLLEGE STUDENTS</p> <p>Lindsay Cotton</p> <p></p>	<p>WINTER ANALYST PROGRAM: SUPPLY CHAIN DISRUPTION</p> <p>Lauryn Todd, Logan Minch, Jarred Kohl, Nathan Kraus, Belle Snyder, Mikaela Crumlich, Kent Dunn, Josh Collins, Cal Cummins, Ryan Felter, Andrew Heider, Hailey Mele, Michael Petronzio, Cherise Schultz, Curt Slagle, Joshua Smith, Eibhlin Terrell, Paige Williams, Hannah Wilson, Ryan Armstrong</p>	<p>REINFORCING THE ROLE OF PCID2 IN CENTROSOME DUPLICATION BY REGULATING BRCA1 LOCALIZATION IN BREAST CANCER CELLS</p> <p>Lauren Turturice</p>	<p>THE EDUCATIONAL CLASH BETWEEN TWO FORCES</p> <p>Hope Wilson</p> <p></p>
PATTERSON 208	<p>THE BINDING OF HISTONE MRNA DEGRADATION INTERMEDIATES AND SLBP</p> <p>Nicole Mackenstein</p>	<p>THE COMPUTER SCIENCE BEHIND MUSIC</p> <p>Braden Stesiak</p>	<p>STRESS AND MEMORY IN COLLEGE STUDENTS</p> <p>Olivia Jacobson </p>	<p>COMPARISON OF LARGE AND SMALL ACCOUNTING FIRMS' MANAGEMENT STYLES AND OPERATIONAL STRATEGIES</p> <p>Noah Luzader</p>

URAC•2022 RESEARCH ROUNDTABLES

PATTERSON FIRST AND THIRD FLOORS

CONCURRENT MORNING ROUNDTABLES — 9:30-10:15 AM

PATTERSON 328	<p>_PASSING_, FROM WORDS ON A PAGE TO ACTIONS ON A SCREEN Faculty Moderator: Kristianne Kalata </p> <p>SYDNEY RENSEL, ERICA CUNNINGHAM, GRETCHEN HAYDU</p>
PATTERSON 333	<p>HOW FAR IS TOO FAR? TRYING TO CONTROL LIFE AND DEATH Faculty Moderator: Russ Martin Faculty Sponsor: Kristianne Kalata  </p> <p>LILY HEFNER, GAVIN JONES, CHRISTINE KARN</p>
PATTERSON 108	<p>WESTMINSTER COLLEGE GLOBAL HEALTH PROJECT Faculty Sponsor: Eric Gaber </p> <p>NOAH POLLIO, JAD JADALLAH, SARA SMALL, LAURYN TODD, ASHLEY WIRE</p>

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

PATTERSON 328	<p>NARRATOLOGY AND PERSPECTIVES IN _PASSING_ Faculty Moderator: Deb Mitchel Faculty Sponsor: Kristianne Kalata </p> <p>ASHLEY TARTER, VICTORIA PELTONEN, KARSON HAHN</p>
PATTERSON 333	<p>EDUCATION AND JUSTICE Faculty Moderator: Kristianne Kalata </p> <p>KRYSTA GERMANOSKI, ABIGAIL CANNON, ELIZABETH WALTERS</p>



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ART & CREATIVE PERFORMANCES,
VIDEOS, & OTHER EVENTS

URAC•2022

McKelvey and Patterson

URAC•2022 ART PRESENTATIONS & DISPLAYS

MCKELVEY AND PATTERSON HALL

GALLERY TALKS

	11:00-11:15 AM	11:15-11:30 AM	11:30-11:45 AM
Patterson Foster Art Gallery	<p>FOOD INSECURITY IN HOUSEHOLDS IN LAWRENCE COUNTY</p>   <p>Ava Krensky, Tanner Dudek, Karly Froess</p>	<p>22% OF CHILDREN IN LAWRENCE COUNTY STRUGGLE WITH FOOD INSECURITY; TIME FOR CHANGE</p>   <p>Samuel Napper, Saadiq Ferrell, Emilie McGill</p>	<p>SERVING UP FOOD WASTE ONE PLATE AT A TIME</p>   <p>Benjamin Pluymers, Abby Green, Katie Henningsen, Deondre McKeever</p>
	11:45 AM-12:00 PM	12:00-12:15 PM	
	<p>HAVE YOU GROWN A GARDEN?</p> <p>Isabelle, Snyder Brady Callahan, Grace Deschand, Jimmy Gilbert</p>	<p>UNEGGCEPTABLE CONDITIONS</p>   <p>Shannon, Sullivan Emiley Weber, Ben Antal</p>	

ART, PHOTOGRAPHY AND FASHION DISPLAYS

	1:00-2:00 PM			
McKelvey 3rd Floor Atrium	<p>EXPLORATION AND SIGNIFICANCE OF MYCOLOGY</p>   <p>Lindsey Rutledge</p>	<p>I CAN'T DECIDE WHAT KIND OF PHOTOS TO TAKE</p> <p>Jack Karson</p>	<p>A STORY THROUGH STILL LIFE</p> <p>Jacob Merkel</p>	<p>KENOBI'S SEASON DEBUT</p> <p>Komari Clark</p>

URAC•2022 CREATIVE PERFORMANCES

MCKELVEY

MUSIC PERFORMANCES

	10:45-11:00 AM	12:45-1:00 PM	1:45-2:00 PM
McKelvey Tub	<p>WESTMINSTER COLLEGE TRUMPET ENSEMBLE</p> <p>Charles Lisella, Madison Mueller-Howell, Matt Claypoole, Hunter Hoag, Dalton Stoops, Cameron Stahl, Isabella Dienes, Jocelyn Sellers</p>	<p>WESTMINSTER COLLEGE BARBERSHOP CLUB</p> <p>Charles Lisella, Tanner Smith, Cameron Stahl, Dan Horgan, Jake Tanner, Jack Romocean</p>	<p>THE SWEET TREBLES A CAPPELLA GROUP</p> <p>Kayleigh Green, Emily Lamark, Maddy Matejka, Amber Cepec, Marissa Mulea, Madison Mueller-Howell</p>

PUBLIC SPEECHES AND PARLIAMENTARY DEBATE

	10:30-10:40 AM	10:40-10:50 AM	10:50-11:00 AM
Berlin Lounge	<p>PEDESTRIAN INJURIES AND DEATHS ON COLLEGE CAMPUSES: NO LAUGHING MATTER</p> <p>Jaden Sowers</p>	<p>POLARIZING PICTURES; A RHETORICAL ANALYSIS OF IMAGES FROM THE JANUARY 6TH, 2021 UPRISING</p> <p>Katie Magee</p>	<p>THE MASKING OF NEURODIVERGANCE: A PUBLIC NARRATIVE</p> <p> Tyler Hunter </p>
	<p>11:00-11:10 AM</p>	<p>11:10-11:20 AM</p>	<p>11:30 AM -12:30 PM</p>
	<p>STORY OF US:ON RACE, IDENTITY, AND MY AMERICAN EXPERIENCE </p> <p>Amauni Campbell</p>	<p>JUST MERCY: INADEQUATE PUBLIC DEFENSE IN U.S. DEATH PENALTY CASES</p> <p>Makyla Wheeler </p>	<p>PARLIAMENTARY DEBATE</p> <p>Mackenzie Hupp, Izayah Bojanac, Kent Dunn, Ellis Moore, Iris Davis Hall, Claire Mock</p>



URAC•2022 VIDEO SCREENINGS

MUELLER THEATER

MORNING PRESENTATIONS — 9:00-10:30 AM

	9-9:30 AM	9:30-10:00 AM	10:00-10:30 AM
VIDEO SCREENING	<p>BACKYARD SOLUTIONS TO BIRD POPULATION LOSSES: A TWEETSPEAK CLUSTER PROJECT </p> <p>Jacob Shulock, Ryan Felter, Sabrina Slagle, Andrew Allender, Cal Cummins, Kyle Fenton, Lauren May, Lindsey Rutledge, Alex Norris, Jimmy Sentz, Adam Silvis, Nick Vicheck, Shaemour Young, Branden Millward, Nick Hubner</p>	<p>BEA CLUB SHORT FILM COMPETITION</p> <p>Constantine Kallaur, Dani Soloski, Marcus Tokar, Austin Shaw</p>	<p>THE MOTHER FAIR SHORT FILM SHOWCASE</p> <p>Constantine Kallaur, Dani Soloski, Marcus Tokar, Mason Peck</p>

AFTERNOON PRESENTATIONS — 1:30-2:30 PM

	1:30-1:45 PM	1:45-2:00 PM	2:00-2:30 PM
VIDEO SCREENING	<p>IT COMES AT NIGHT</p> <p>Marcus Tokar, Brittany Marburger, Dale Sizemore, Ryan Thibault, Gavin Morris, Jalen Douglas, James Boyle</p>	<p>THE FIGURES</p> <p>Morgan Waag, Max Robinson, Andrew Tedesco, Christopher Powers, Mason Peck, Savion Baker</p>	<p>IMAGINE A QUEST</p> <p>Constantine Kallaur</p>



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URAC•2022 OTHER EVENTS

VARIOUS LOCATIONS

ALL DAY DISPLAYS

	Main Quad	Outside Foster Art Gallery Patterson Hall
9:00 AM - 4:00 PM	WHERE THEY ARE FROM: A POETRY COLLECTION BY THE CLASS OF 2025	ENVIRONMENTAL ARTIST PODCAST PROJECT  Emilie McGill, Ben Antal, Brady Callahan, Grace Descha Tanner Dudek, Saadiq Ferrell, Karly Froess, Jimmy Gilbert, Abby Green, Katie Henningsen, Ava Krensky, Deondre McKeever, Samuel Napper, Ben Pluymers, Belle Snyder, Shannon Sullivan, Emiley Weber

FOCUS GROUPS

PROVIDE FEEDBACK TO STUDENTS WORKING IN THEIR CREATIVE MEDIA PRODUCTION CAPSTONE PROJECTS.

	10:00-11:00 AM	12:00-1:00 PM	2:00-3:00 PM
McKelvey 275	Daniel Horgan, Callie Beck	Morgan Waag, Dani Soloski, Andrew Phillips	Iris Davis Hall, Rob King

SCRAWL AND SIGMA TAU DELTA

	11:00-1:00 PM Tub	12:15-1:15 PM Mueller Theater
McKelvey	SCRAWL Spring 2022 Release	Scrawl and Sigma Tau Delta present: Student Artistic Perspectives

SPECIAL PRESENTATIONS

	9:30-10:30 AM Patterson 207	11:00 AM- 12:00 PM Patterson 210
Patterson	"OLD MAIN AND THE WESTMINSTER COMMUNITY: A DIGITAL HISTORY EXHIBITION" Nicholas Pirolo, Stephen Adametz, Thomas Kauffman, Carl Medsger, Jacob Kelley	WORKSHOP: THE EFFECT OF GENDER BALANCED TEAMS IN THE PROFESSIONAL WORKPLACE  Lauryn Todd

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URAC•2022 RESEARCH EXPERIENCE PANEL

HOW TO GET STARTED IN RESEARCH

BERLIN LOUNGE 2:00-3:00 PM

COME AND 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.

PANELISTS:

RYAN ARMSTRONG Sophomore Biology & History	RIANA SMITH Senior Chemistry	GABBY LUCAS Senior History & Political Science	EMMA PARKER Sophomore Biochemistry	NICOLE MACKENSTEIN Senior Biochemistry
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EMAIL:

Deanne Buffalari
buffald@westminster.edu
ResPAC Co-chair

Jessica Sarver
sarverjl@westminster.edu
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