

URAC-2021

UNDERGRADUATE RESEARCH & ARTS CELEBRATION

POSTER PRESENTATIONS, ORAL PRESENTATIONS, RESEARCH ROUNDTABLES, PERFORMANCES, AND VIDEOS

WEDNESDAY, APRIL 21, 2021

Sponsored by The Drinko Center for Undergraduate Research



WESTMINSTER COLLEGE

WELCOME TO URAC 2021!

Westminster College is proud to host the 2021 Undergraduate Research and Arts Celebration. After the abrupt need to cancel URAC 2020, I am absolutely ecstatic for the return of this signature event to the Westminster College Campus. Today, approximately 300 students will present their research and creative projects in person and virtually through 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 2021 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 or countless hours of rehearsal. For some students, URAC 2021 will be their first formal presentation in college, and for others, participating in URAC 2021 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 2021 possible.

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

Karen K. Resendes Directors, Drinko Center for Undergraduate Research Share your #WCURAC experience!



#WCURAC



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9 AM - 4 PM

WHERE THEY ARE FROM: A POETRY COLLECTION BY THE CLASS OF 2024

Quad

9 - 10 AM

POSTER SESSION A

Old 77

9:30 - 10:30 AM

CONCURRENT ZOOM SPEAKERS SESSION A

Online

10 - 10:15 AM

MUSICAL PERFORMANCE: TRUMPET ENSEMBLE

Quad (Inclement Weather: McKelvey)

10:15 - 11:15 AM

IN PERSON PODIUM PRESENTATION SPEAKERS

Witherspoon Rooms

10:45 - 11:45 AM

CONCURRENT RESEARCH ROUNDTABLES SESSION A

Online

11 AM - 12 PM

POSTER SESSION B

Old 77

11:30 AM - 12:30 PM

PUBLIC EXHIBITION PARLIAMENTARY DEBATE

Berlin Lounge

11:30 AM - 1:30 PM

ART DISPLAY AND SCRAWL RELEASE Quad (Inclement Weather: McKelvey)

12:45 - 1:30 PM

A CELEBRATION OF 100 YEARS OF WOMEN'S SUFFRAGE: FROM VOICE TO VOTE

Berlin Lounge

1 - 2 PM

POSTER SESSION C

Old 77

2 - 2:15 PM

MUSICAL PERFORMANCE: BARBERSHOP CLUB

Quad (Inclement Weather: McKelvey)

1:30 - 2:30 PM

CONCURRENT ZOOM SPEAKERS SESSION B

Online

2:15 - 3:15 PM

IN PERSON PODIUM PRESENTATION SPEAKERS

Witherspoon Rooms

2:30 - 4:00 PM

CONCURRENT ZOOM PERFORMANCES AND

VIDEO PRESENTATIONS

Online

2:45 - 3:45 PM

CONCURRENT RESEARCH ROUNDTABLES SESSION B

Online

3 - 4 PM

POSTER SESSION D

Old 77



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/URAC2021

Survey must be completed by Wednesday May 5th to be eligible for prize drawing.



Survey:

URAC-2021 POSTER PRESENTATIONS

Old 77 Gymnasium

URAC-2021 POSTER PRESENTATIONS

POSTER NUMBER TITLE **FACULTY SPONSOR(S)** RESEARCHER(S)

SESSION A - 9-10 A M

A1	Assessment of Adult Zebrafish Anxiety Behavior After Acute Bisphenol A (BPA) Exposure During Late-Stage Development Measured by the Novel Tank Diving Test	Julia Serbati	Deanne Buffalari
A2	Geospatial Analysis of Food Deserts in Rural United States	Sara Small	Ann Throckmorton
A3	The Genetic Diversity of Odocoileus virginianus in Pennsylvania	Casey Barton	Kristen Amick
A4	The Three Pillars of Sustainability: Pitch, Pint, and the Premier League	Nicholas Iregui Romano Veneziano	Robert Zullo
A5	How Covid19 has affected the Sports Industry Economically?	Mary Henningsen	Keith Bittel
A6	Columbiana Counseling Center Market Research	Halle Nerone, Jocelyn Gillette, Nick Iregui, Nick Vicheck, Christopher Powers	Eric Gaber
A7	We Would Rather Go Naked Than Harm the Earth: How Clothing Companies are going Green	Cameron Mika, Jack Quinn, Taylor Williams, Alex Mullen	Robert Zullo
A8	What You Need to Know About the Moderna COVID-19 Vaccine	Julia Strobel	John Robertson
Α9	American Model United Nations 2020	Kelsey Humes, Michael Kurywchak, Andrew Piatt, Seth Zacherl, Evan Brochinsky, Kaylee Brosius, Amir Hassan, Iris Davis Hall, Joseph Pisano, Hannah Wilson, Teddy Curcio, Mitchel Henderson, Jess Reabe, Mark Moran, Victoria Harden, Marc Esqueda, Bryer Cochenour, Jackson Gastmeyer	Michael Aleprete
A10	Effects of Perfluorooctanesulfonic acid (PFOS) and Perfluorooctanoic acid (PFOA)	Amir Hassan	Marosh Furimsky
A11	Lawrence County Medical Source- SBDC Offering to Research and Suggest Social Media Marketing Solutions	Curt Slagle	Eric Gaber
A12	How does a filter feeder feed? Characterizing gill raker mucus cells in paddlefish (Polyodon spathula)	Noah West	John Robertson
A13	Frontline Mental Health Workers and Incarceration: Expectations vs. Reality and Stress Management during COVID-19	Hannah Westwood	Jamie Chapman

SESSION B — 11 A.M. - 12 P.M.

B1	No More Wasting Away: The Reduction of Food Waste and Plastics at Westminster College	Julia Serbati	Helen Boylan
B2	Identification of Sub-haplotypes Among Domestic Dogs with the B1 Mitochondrial Control Region Haplotype	Francisco Rodriguez, Casey Barton	Kristen Amick
В3	"That Ball is Going, Going, Green!": Sustainability in the MLB	John Granahan, Ben Romah	Robert Zullo
В4	Brand Consortium	Douglas Salah. Paige Williams, John Popa, Breanna Ferguson, Connor May, Hailey Mele, Alex Mullen, Bethanie Martin, April Munson	Eric Gaber
B5	Client Diversification Services	Brock Barrett, Selena Thomas, Madillynn Kerr, Aaron Iler	Eric Gaber
В6	Tackling the world's greatest opponent: the NFL and environmental sustainability	Ian Valente, Frank Antuono	Robert Zullo
В7	The effect of cortisone acetate on limb regeneration rate and digit formation in Ambystoma mexicanum	Megan Steele, Josie Barnhart	Joshua Corrette-Bennett
B8	A Rhetorical Analysis of the Inaugural Address of Joseph Biden	Kaylee Brosius	Brittany Rowe-Cernevicius



POSTER NUMBER	TITLE	RESEARCHER(S)	FACULTY SPONSOR(S)
В9	Student Analysis of Septic Shock- "Its About Time"	Amir Hassan	John Robertson
B10	Knowledge and Attitudes of College Students of Human Papillomavirus Infection and Immunization	Sophia Kaplan, Olivia Droese,Bailey Kurdys	John Robertson
B11	An Overview of Metabolic Acidosis	Noah West	John Robertson
B12	Extra Guac to Save the World	Benjamin Antal, Tanner Dudek, Mari Clark, Antwon Jones	Robert Zullo
B13	Two-Dimensional Heat Flow Apparatus	Bryce Hayes	Craig Caylor
B14	The Reinforcement-Enhancing Effect of Nicotine on Reinstatement of Place Preference for Cocaine in Rats	Haley Moore	Deanne Buffalari
B15	Taste the Green: Sustainable Marketing in Restaurants	Tyler Ness, Deondre McKeever, Maxwell Reamer, Noah Yates	Robert Zullo
B16	Determining the Fluctuations in Brightness of RR Lyrae Star BB Lep	Riana Smith	Craig Caylor
B17	The Morphological and Behavioral effects of Acetaminophen in Danio rerio Embryonic Development	Stephen Tella	Marosh Furimsky
B18	Distribution and Density of Integumentary Sensory Organs in the Cranial Region of Juvenile Alligator mississippiensis	Parker Redmond	John Robertson
B19	The Effect of Molecular Crowding on the Function of Fetuin	Marcus Diniaco	Erin Wilson
B20	Estimating the frequency of root tags on naturally shed cat hair and the diversity of mitotypes in the cat population of Alaska	Allison Brombacher	Kristen Amick

SESSION C — 1-2 P.M.

C1	A One Way "Shot" to Normalcy? Yes Please.	Samuel Accordino, Abby Steinbeck	John Robertson
C2	Spironolactone Might Just Spare Your Heart And Your Face!	Morgan Gossard, Angela Birckbichler	John Robertson
C3	Differences in Susceptibility to Nicotine Dependence Based on Adolescent Stage in Female Rats	Zoe Cable	Deanne Buffalari
C4	Simply Bold Brand Development	Paige Williams	Eric Gaber
C5	Chester, PA: A Case Study in Environmental Injustice	Claire Mock	Helen Boylan
C6	An Agent-based Model of Pollen Competition in Arabidopsis thaliana	Montana Ferita	Natacha Merz, Alex Capaldi

OSTER UMBER	TITLE	RESEARCHER(S)	FACULTY SPONSOR(S)
	3D Printer Business Diversification Research	Jason Hall, Brooke Powell, Dino D'Alesio, Tyler Dahlkemper, Nathan Kraus	Eric Gaber
C8	Market Research for Contagion Clear	Dylan Magill, Bethany Edwards, Mol- ly Frank, Nathan Kraus, Maya Steward, Madison Utiss	Eric Gaber
C9	The effectiveness of microplastics as vectors for heavy metals in the mouthpart deformities in Chironomus riparius	Natalie Schwarz	Ann Throckmorton
C10	The effect of cortisone on the expression of msx2 during limb regeneration in axolotl (Ambystoma mexicanum)	Josephine Barnhart, Megan Steele	Joshua Corrette-Bennett
C11	Bacterial Biodiversity comparison within Pymatuning Lake	Francisco Rodriguez	Kristen Amick
C12	A Data Analysis of Allegheny County COVID-19 Data	Michaela Hays	John Bonomo
C13	Constructing and Comparing a Simple Wireless Charging Transmitter to a Commercial Model	Carinna Lapson	Craig Caylor
C14	Effects of D-Amphetamine on Anxiety-like Behavior in Adolescent Zebrafish	Brianna Pickens	Deanne Buffalari
C15	Kobe, LeBron, or David- Who's the NBA's All-Time Greatest (at sustainability)	Anthony Ritter, Isaac Stamatiades	Robert Zullo
C16	Demonstration of Faraday's Law: Observations of Dropping a Magnet Through a Conducting Tube	Jacob Trzcinski	Craig Caylor
C17	Insecticidal effects of Cannabidiol essential oil against the mealworm beetle, Tenebrio molitor	Chasey Townsend	Ann Throckmorton
C18	Abundance of Algivorous Ciliated Protozoa Over Time in Artificial Microbial Communities	Anna Lutz	Joseph Balczon
C19	Antibiotic susceptibility of Escherichia coli isolated from Amish and industrialized dairy cattle	Nicholas Kearney	Joseph Balczon

D1	The Effects of Acute Nicotine Exposure on Anxiety-like Behavior in Rats Chronically Exposed to Methylphenidate	Samuel Accordino	Deanne Buffalari
D2	Bisphenol F treatment results in pericardial edema and delayed hatching in zebrafish embryos.	Angela Birckbichler	Marosh Furimsky
D3	ADHD and Impairment: An Examination of the Role of Multitasking Deficits	Brittany Watson	Jessica Rhodes



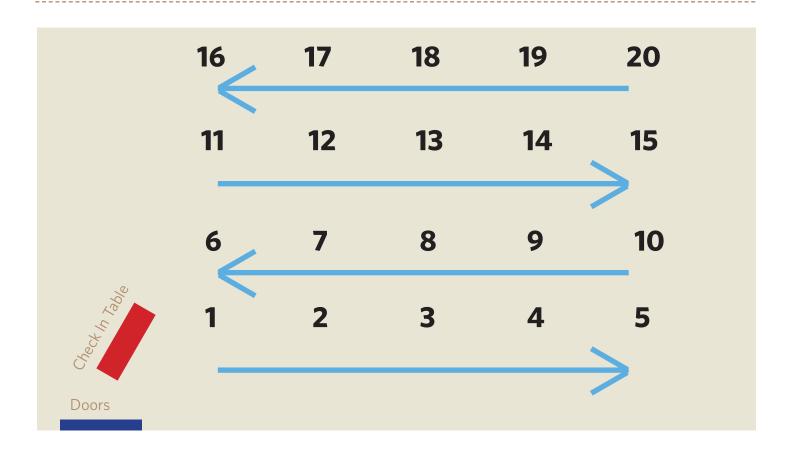


D4	Outdoor Odyssey Service Line Repositioning Research	Meilin Titus, Jessica Booher, Joe Coveny, Grace Deschand, Payton Goodwin	Eric Gaber
D5	Molecular dynamic simulations of folding and dimerization in mutations found in the s2m motif of SARS-CoV-2	Nicole Mackenstein, Morgan Shine	Patrick Lackey
D6	Environmentally Trendy	Alexis Allen	Robert Zullo
D7	Cloning and Purifying Histone mRNA's Stem-Loop Binding Protein	Bailey Kurdys	Patrick Lackey
D8	Clean and green is our perfect hotel dream	Grace Deschand, Jason Hall, Baylee Horvath, Brock Lindsey	Robert Zullo
D9	Partisan Over Individuality: An Investigation Into The Influences of Symbolism	Jackson Gastmeyer	James Rhoads
D10	POSTER MOVED TO A5		
D11	Analysis of Cannabinoids in Over-the- Counter Hemp Products Using Reverse- phase Liquid Chromatography and Commercially Available Presumptive Tests	Kelsey Kraft	Helen Boylan
D12	How the Alcohol Industry is Making your Drink Greener	Mark Lanterman, Kyle Fenton, Dakota Hill, Andrew Allender	Robert Zullo
D13	Mechanics of Two Pendulums Connected by a Stressed Spring	John Lima	Craig Caylor
D14	Analyzing the Taylor-Couette Flow: A Demonstration that Appears to Break Entropy	Casey Mezerkor	Craig Caylor
D15	Evolving Agriculture - How Companies are Changing To Produce a Better Product and Planet	Emma Rudolph, Dom Motta, Nick Vicheck	Robert Zullo
D16	OhanaLink- Pivoting/Repositioning of Health Care App	Nickalas Vicheck, Belle Snyder, Maya Steward, Rianna Lyden	Eric Gaber
D17	PCID2 Influences the Nuclear and Cytoplasmic Localization of BARD1 Protein in Hs578T Breast Cancer Cells	Rachael Woessner	Karen Resendes
D18	American kestrels vs. European starlings: Kestrels win when competition for nest sites is reduced	Kara Kutsch	Kerri Duerr
D19	Combining slipper liquid infused porous surfaces and qourum sensing inhibition to reduce biofilm formation of Pseudomonas aeruginosa	Alexes Kolosky	Erin Wilson



POSTER LOCATION MAP OLD 77 GYMNASIUM

PLEASE FOLLOW DIRECTIONAL ARROWS FOR POSTER VIEWING









INDEX OF POSTER PRESENTERS

PRESENTER	POSTER #	PRESENTER	POSTER#	PRESENTER	POSTER #
William Abraham Samuel Accordino AlexisAllen	A5 C1, D1 D6 D12	Dakota Hill Baylee Horvath Kelsey Humes	D12 D8 A9	Brooke Powell Christopher Powers Jack Quinn	C7 A6 A7 B19
Andrew Allender Benjamin Antal Frank Antuono Josephine Barnhart	B12 B6 B7, C10	Mackenzie Hupp Aaron Iler Nicholas Iregui Jad Jadallah	A19 B5 A4, A5, A6 A5	Lexi Radinick Parker Redmond Anthony Ritter Jess Reabe	B18 C15 A9
Brock Barrett	A5, B5	Antwon Jones	B12	Maxwell Reamer	B15
Casey Barton	A3, B2	Sophia Kaplan	B10	Francisco Rodriguez	B2, C11
Haley Beckman	A18	Nicholas Kearney	C19	Ben Romah	B3
Angela Birckbichler	C2, D2	Collin Kelly	A14	Emma Rudolph	D15
Jessica Booher	D4	Madillyn Kerr	B5	Douglas Salah	B4
Emma Bradley	B19	Alexes Koslosky	D19	Natalie Schwarz	C9
Allison Brombacher	B20	Kelsey Kraft	D11	Julia Serbati	A1,B1
Evan Bronchinsky	A9	Nathan Kraus	C7, C8	Morgan Shine	D5
Kaylee Brosius	A9, B8	Bailey Kurdys	B10, D7	Hattie Shrock	A18
Zoe Cable	C3	Michael Kurywchak	A9	Kai Skinner	A17
Mari Clark Paige Copenhaver Bryce Cochenour	B12 A20 A9	Kara Kutsch Mark Lanterman Carinna Lapson	D18 D12 C13	Curt Slagle Sara Small Riana Smith	A17 A5, A11 A2 B16
Joe Coveny	D4	John Lima	D13	Belle Snyder	D16
Teddy Curcio	A9	Brock Lindsey	D8	Blaine Sorrick	A16
Tyler Dahlkemper	C7	Anna Lutz	C18	Isaac Stamatiades	C15
Dino D'Alesio	C7	Noah Luzader	A5	Megan Steele	B7, C10
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Grace Deschand	D4, D8	Nicole Mackenstein	D5	Maya Steward	C8, D16
Marcus Diniaco	B19	Dylan Magill	A5, C8	Julia Strobel	A8
Tanner Dudek	B12	Bethanie Martin	B4	Stephen Tella	B17
Olivia Droese	B10	Zac Marzula	A5	Bre Tetirick	A14
Bethany Edwards	A5, C8	Connor May	B4	Selena Thomas	B5
Marc Esqueda	A9	Deondre McKeever	B15	Meilin Titus	D4
Kyle Fenton	D12	Owen Meilander	A15	Chasey Townsend	C17
Breanna Ferguson	B4	Hailey Mele	B4	Jacob Trzcinski	C16
Montana Ferita	C6	Casey Mezerkor	D14	Madison Utiss	C8
Molly Frank	C8	Cameron Mika	A7	Ian Valente	B6
Jackson Gastmeyer	A9, D9	Claire Mock	C5	Nick Vicheck	D15
Jocelyn Gillette Payton Goodwin Morgan Gossard	A6 D4 C2	Haley Moore Mark Moran Dom Motta April Munson	B14 A9 A5, D15	Romano Veniziano Nickalas Vicheck Erin Ward	A4, A5 D16 A16 D3
John Granahan Jason Hall Victoria Harden Amir Hassan	B3 C7, D8 A9 A9, A10, B9	Alex Mullen Halle Nerone Tyler Ness	A5,B4 A7, B4 A6 B15	Brittany Watson Noah West Hannah Westwood Paige Williams	A12, B1 A13 B4,C4
Bryce Hayes	B13	Andrew Piatt	A9	Taylor Williams	A7
Michaela Hays	C12	Brianna Pickens	C14	Hannah Wilson	A9
MichelHenderson	A9	Joseph Pisano	A9	Rachael Woessner	D17
Mary Henningsen	D10	John Popa	B4	Noah Yates	B15
				Seth Zacherl	A9

ORAL PRESENTATIONS & URAC-2021 RESEARCH ROUNDTABLES

Witherspoon Rooms and Online

URAC-2021 IN PERSON PODIUM PRESENTATIONS

WITHERSPOON ROOMS (CAPACITY - 34 PER ROOM)

MORNING SESSION — 10:15-11:15 AM

10:15 AM USING MACHINE LEARNING TO IDENTIFY DIABETIC RETINOPATHY

Elania Chapnell

10:45 AM MIRACLE WRITERS: EVOLUTION, INFLUENCE, AND PURPOSE OF MAGICAL REALISM

Caroline Hess

10:15 AM THE EFFECTS OF METHYLPHENIDATE AND NICOTINE ON SPATIAL WORKING

MEMORY IN RODENTS

Cassidy Nielson

10:45 AM HOW CAN TEACHERS INDIVIDUALIZE INTENSIVE READING INTERVENTIONS

TO ENSURE SUCCESSFUL OUTCOMES?

Ashley Russell

AFTERNOON SESSION — 2:15-3:15 PM

2:15 PM MATERNAL MORBIDITY AND MORTALITY IN RELATION TO THE ECONOMIC AND

SOCIAL STATUS OF WOMEN IN CENTRAL AMERICA

Zoe Cable

2:45 PM THE EFFECTS OF SOCIAL ANTECEDENTS OF BULLSHIT ON BULLSHIT DETECTION

Tyler Snodgrass

2:15 PM DISTINGUISHING DIFFERING CONFORMATIONS OF ALPHA-SYNUCLEIN THROUGH

DISTANCE MEASUREMENTS

Brandon Williams

2:45 PM JAMMIN' WITH LANGSTON HUGHES: A SYMPHONY OF TRUTH IN BLACK AMERICA

Timothy Hering







URAC-2021 ZOOM ORAL PRESENTATIONS

HTTPS://WESTMINSTEREDU.ZOOM.US/ PASSWORD: URAC2021

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

	9:30 AM	9:45 AM	10:00 AM	10:15 AM
SESSION A1 Meeting ID: 976 0480 2888	HANNAH FELL Digital Forensics Labor Analysis for DHS and Law Enforcement	CHEYENNE KEITH Immortality of Louis XIV	ANDRIUS BURNELIS Introducing Hydrodynamics to Better Model Galactic Mergers	MORGAN GOSSARD Observing the Role of Cocaine Hydrochloride on the Behavioral Development of Zebrafish Larvae
SESSION A2 Meeting ID: 948 8933 9569	BAILEY GRIFFITH Self-Concept and Peer Relationships as Possible Mediators for the Relationship Between ADHD and Drinking	ANTONINO ITRI Insurance 101: Plan Now, Thank Yourself Later	GARRETT GARLOCK Terrorism's Impact on Individual Participation In African Civil Society	LAURYN TODD Summer Analyst Program - Tesla & Electric Vehicles
SESSION A3 Meeting ID: 959 6811 9574	RYAN BEARD Enactus - Bottle Caps to Furniture	JESSICA NELSON Modeling Uncontrolled and Controlled Covid-19 Spread Using Graph Theory	FRANK ANTUONO Athletic Sponsorships in Division III Athletics - Exploring the Unknown for Titan Nation	NATALIE SCHWARZ The Evolution of the Perception of La Malinche Throughout Mexican History
SESSION A4 Meeting ID: 929 1131 6714	JACK QUINN Student Debt Turmoil: A Growing Crisis	MATTHEW BOLLINGER Multi-User Blog Website Application	BREANNA FERGUSON The Effects of Running on Stress and Academic Motivation during COVID-19 Pandemic	MONTANA FERITA Not Your Normal Fibonacci Sequence
SESSION A5 Meeting ID: 968 9231 7948	FAITH HOWELL Does Pretty Mean Productive?	TIFFANY EATON Effects of Gender- Typed Advertisements on Memory and Purchase Intention	JULIANNA CAPO The effect of biotinylated siHybrids on suppression of the ica operon	ALEXIS ALLEN The Keys To Your Home

URAC-2021 ZOOM ORAL PRESENTATIONS

HTTPS://WESTMINSTEREDU.ZOOM.US/ PASSWORD: URAC2021

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

	9:30 AM	9:45 AM	10:00 AM	10:15 AM
SESSION A6 Meeting ID: 950 9099 3887	EMILY CORNMAN Evaluating Wine to Water ceramic silver- impregnated pot and candle filters as a sustainable solution for the global water crisis	CORRINE LARSON International Trade in Spain	TSUBOMI POLEY The Firefighter Game Problem	CHRISTIAN KEEGAN Buried Between the Lines: The Binary Lives of Elizabeth I and Mary, Queen of Scots in Letters
SESSION A7 Meeting ID: 912 0577 9474	SCRAWL AND SIGI	MA TAU DELTA PRES	ENT STUDENT ARTIS	STIC PERSPECTIVES

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

	1:30 PM	1:45 PM	2:00 PM	2:15 PM
SESSION B1 Meeting ID: 917 5613 8832	p53, p21, and p27 are not involved in apoptosis in pancreatic cancer cells treated with gemcitabine alone or in combination with	JULIE KERLIN The Women of the Virus Research Laboratory: The Hidden History of the Salk Vaccine through the Women who worked with Dr. Jonas Salk in Pittsburgh, PA from 1947 to 1955	CHARLOTTE SHUNK Adaptations to adulthood: Understanding the thematic differences between young adult novels and coming-of- age films	SYDNEY PIPO Effects of nicotine and methylphenidate on working and reference memory
SESSION B2 Meeting ID: 918 3655 6679	ANTONINO ITRI Recycling: Do Your Part, Help Others	JESSICA BOOHER Recommender Systems in Python	HANNAH HUNTER Purification of Alpha- Synuclein Protein for Membrane Binding Studies	KAILEY COSTABILE Mental Health Awareness: Educating the Educators

URAC-2021 ZOOM ORAL PRESENTATIONS

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

	1:30 PM	1:45 PM	2:00 PM	2:15 PM
SESSION B3 Meeting ID: 981 7761 4693	HANNAH FELL The Wedding Table Problem	KAYLEIGH TROBEK An Argument for the Integration of Care and Reason in Contemporary Ethics	JULIA REDILLA Examining Preconceived Judgements of Religions and Practices Based on Titles and Descriptions	JOHN DANIELS A Brief History of the Double Bass
SESSION B4 Meeting ID: 923 1794 2889	EMILY CORNMAN The Unique Experiences of the Sandwich Generation	EMILY KRINOS Asymmetric Robinson annulation-epoxidation sequence	TRAVIS BALL Do You Really Need That?	CATHERINE STEVENS Investigating RR-Lyrae type star
SESSION B5 Meeting ID: 919 9304 6263	JESSICA NELSON Exploring Track Trigger Parameters for Exotic and Long Lived Particle Searches	LINDSAY COTTON How Does Age of an Animal Influence Happiness?	KAYLEE MADEY Climate change	MORGAN SHINE Biophysical Characterization and Computational Modeling of Histone mRNA Degradation Intermediates
SESSION B6 Meeting ID: 999 1089 3470	JULIANNA CAPO Influence of Camera Activity on Affect Experienced during Virtual Meetings	STEPHEN BARR Staving Off Starvation in Your Seventies	MEGHAN MILLS Growth and Purification of Alpha Synuclein	JULIA STROBEL PCID2 regulates nuclear export of BARD1 mRNA



URAC-2021 ZOOM RESEARCH ROUNDTABLES

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CONCURRENT MORNING ROUND TABLES — 10:45-11:45 AM

ROUNDTABLE A1 Meeting ID: 961 1223 6020	QUALITY IMPROVEMENT RESEARCH IN NURSING Faculty Moderator: Tricia Ryan MARISSA DECKER, BRITTANY BURNS, ALEX CARUSO, CHRISTINA KOPNITSKY, ALAZIA GREAVES, MEGAN PARKER, JENSEN HOUSTON, ALLISON HAMPTON, GABRIELLE DIAMOND, CLAUDIA KAMENSKI
ROUNDTABLE A2 Meeting ID: 943 8956 1475	UNITY BRINGS POWER: THE 1977 NATIONAL WOMEN'S CONFERENCE Faculty Moderator: Kristianne Kalata; Adviser: Angela Lahr MAKENZIE SNAREY, IVY WITHERS, PATRICK HOLTON
ROUNDTABLE A3 Meeting ID: 936 9933 8654	ANALYZING THE DIVERSITY OF THE ORGANIZERS AND PARTICIPANTS OF THE 1977 NATIONAL WOMEN'S CONFERENCE IN HOUSTON, TEXAS. Faculty Moderator: Angela Lahr BRIAN WHETZEL, JOSH MOON, AYLA GRIFFIN, ZACH RAMFOS

CONCURRENT AFTERNOON ROUNDTABLES — 2:45-3:45 PM

ROUNDTABLE B1 Meeting ID: 988 2190 8175	GENDER AND POLITICAL RHETORIC ROUNDTABLE Faculty Moderator: Randy Richardson IRIS DAVIS HALL, GABRIELLE LUCAS, AND PEYTON MACKINLAY
ROUNDTABLE B2 Meeting ID: 975 3323 2334	ISSUES OF THE 1977 NATIONAL WOMEN'S CONFERENCE Faculty Moderator: Kristianne Kalata; Adviser: Angela Lahr EMILY GELLATLY, HANNAH WESTWOOD, KENDAL ASHMAN, AND ROB KING
ROUNDTABLE B3 Meeting ID: 919 1509 9052	PROMOTING, OPPOSING, AND COVERING THE 1977 NATIONAL WOMEN'S CONFERENCE Faculty Moderator: Angela Lahr DYLAN RODRIGUEZ, CHEYENNE KEITH, AND BRYER COCHENOUR

URAC•2021 PERFORMANCES & VIDEOS Main Quad, Berlin Lounge and Online

URAC-2021 EVENTS & PERFORMANCES

WESTMINSTER MAIN OUAD (INCLEMENT WEATHER - MCKELVEY)

CREATIVE WORKS DISPLAYS

9:00 AM-4:00 PM WHERE THEY ARE FROM: A POETRY COLLECTION BY THE CLASS OF 2024

11:30 AM-1:30 PM SCRAWL RELEASE TABLE

11:30 AM-1:30 PM ART DISPLAY: DO YOU UNDERSTAND ME?

Miranda Woge

MUSIC PERFORMANCES

10:00-10:15 AM WESTMINSTER COLLEGE TRUMPET ENSEMBLE

Charles Lisella Liz Galligan
Tim Hering Matt Claypoole

Hunter Hoag Madison Mueller-Howell

2:00-2:15 PM WESTMINSTER COLLEGE BARBERSHOP CLUB

Charles Lisell Avery Glisson Izayah Bojanac Tanner Smith Dan Horgan Jake Tanner

INDOOR PERFORMANCES: BERLIN LOUNGE

11:30 AM-12:30 PM PUBLIC EXHIBITION PARLIAMENTARY DEBATE

Mackenzie Hupp N/A Dunn

Evan Brochinsky Anna Grimenstein Izayah Bojanac Lexi Koslosky Iris Davis Hall Kiana Miles

Lindsey Oliver

12:45 PM-1:30 PM "A CELEBRATION OF 100 YEARS OF WOMEN'S SUFFRAGE: FROM VOICE TO VOTE"

Kiana Miles Yiannoula Katsadas Izayah Bojanac Peyton Mackinlay Evan Brochinsky Katie Magee Iris Davis Hall Andrew Piatt

Harley Jane Hummel



URAC-2021 ZOOM PERFORMANCES & VIDEOS

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CONCURRENT AFTERNOON PRESENTATIONS — 2:30-4:00 PM

	2:30-3:15 PM	3:15-4:00 PM	
VIDEO SESSION A1 Meeting ID: 918 4283 1873	ES 231 Environmental Analysis Students	ENV 201 Contemporary Issues Environmental Studies Students	

	2:45-3:05 PM	3:05-3:20 PM	3:20-3:45 PM
VIDEO SESSION A2 Meeting ID: 981 0528 1450	RIANA SMITH The Formation and Crystallization of Ice Cream: Testing the Colligative Property of Freezing Point Depression	CONSTANTINE KALLAUR Imagine a Quest	RILEY LEWIS Interviews with Dr. Maura Murphy, Associate Athletic Director for Development, Ohio State University and Stephen Keener, President and Executive Director of Little League

	2:45-3:15 PM		2:45-3:15 PM
PERFORMANCE Meeting ID: 991 40754731	KYLE YOUMANS A Perspective on Preludes	DEMONSTRATION Meeting ID: 921 4244 9003	ALEXANDRU GEORGESCU Implementing Voice Recognition and Object Detection through Deep Learning on a 3-wheeled Robot"



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

Thursday, December 2nd, 2021

5:30-7:30 p.m. Networking & Poster Session 7:30-9:00 p.m. Oral Presentations With Hybrid Elements

Westminster College

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





Professional Networking Symposium

Friday September 10, 2021

Network with alumni for internship, career, graduate school, and professional development opportunities.

@WCPDC



Research

Professions

Advisory

Committee

Giving guidance and career advice to students interested in masters and Ph.D. programs in science or professions in industry.

RESPAC WORKSHOPS

ResPAC hosts regular workshops in such topics as:

- O Applying to graduate school
- O Writing your resume or *curriculum vitae*
- O Writing a personal statement
- Finding a research internship
- O Career panels

VISIT: https://www.westminster.edu/academics/respac/index.cfm

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Jessica Sarver

ResPAC Co-chair ResPAC Co-chair

WESTMINSTER COLLEGE

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JOIN THE CONVERSATION











