MUSE 2023 Poster Session

#	School	Department	Student Presenters	Poster Title	Faculty Mentors
1	Arts and Communication	Art and Art History	Michaela Moran, Nicole Molnar	The Delaware River Project	Elizabeth Mackie
2	Arts and Communication	Art and Art History	Shayna Carter, Leah Lavender	The Roman Emperor Seen from the Provinces: Imaging Roman Power in the Cities of the Empire (31 BC-AD 297)	Lee Ann Riccardi
3	Arts and Communication	Art and Art History	Franchesca Vega	Landscapes of Change; Facts & Fictions as Artistic Interventions	Elizabeth Van Der Heijden
4	Education	Deaf Education	Leanna Travers, Ashley Peng	Why I No Longer Teach Deaf Students	Steven Singer
5	Education	Elementary and Early Childhood Education	Mary Lawas	Voices of Asian American Teachers	MinSoo Kim-Bossard
6	Engineering	Biomedical Engineering	Hajer Ali, Michelle Foong	Muscle Fatigue Monitor	Brett BuSha
7	Engineering	Biomedical Engineering	Nathaniel Safar	Computational analysis of fluid flow and the initiation of thrombosis in an in vitro flow system	Constance Hall
8	Engineering	Biomedical Engineering	Erin Sommers	In vitro model of fluid flow and microparticles in venous thrombosis	Constance Hall
9	Engineering	Biomedical Engineering	Caroline O'Rourke	Effects of Low-Intensity Vibration and Exercise on Bone Mechanical Properties	Anthony Lau
10	Engineering	Biomedical Engineering	Asmaa Ali	Current Density Behavior during DBS	Xuefeng Wei
11	Engineering	Civil Engineering	Andrew Byrne	Climate change and extreme rainfall events	Michael Horst
12	Engineering	Civil Engineering	Terrell Osei-Kyei	Novel approach to flood-risk assessment using continuous in-stream monitoring data: Case study of four streams in Southeastern Pennsylvania	Andrea Welker
13	Engineering	Electrical and Computer Engineering	Francis Aldridge	Programmable Logic Controller Implementation for Model Predictive Control	Ambrose Adegbege
14	Engineering	Electrical and Computer Engineering	Jasmine Ocasio	Analog Circuits for Optimal Control	Ambrose Adegbege
15	Engineering	Electrical and Computer Engineering	Chris Toala	Direct Iterative Solver for Model Predictive Control	Ambrose Adegbege
16	Engineering	Integrative STEM Education	Shayaan Makki	Optimal Design Strategies for External Green Walls: Integrating Aesthetics, Sustainability, and Functionality	Manuel Figueroa
17	Humanities and Social Sciences	Journalism and Professional Writing	Asaka Park	#TechnicallyAutistic: Dispatches from the Periphery	Harriet Hustis
18	Humanities and Social Sciences	Psychology	Summer Monasterial, Rebecca Klein	Implementing a Mental Wellness Program with Trenton Youth	He Len Chung
19	Humanities and Social Sciences	Psychology	Alyssa Molnar, Tara Richardson	Do Children Preferentially Learn from Surprising Teachers?	Aimee Stahl
20	Humanities and Social Sciences	Sociology and Anthropology	Dana Laissle	STEM Curriculum Structure, Inclusivity, and Student Outcomes During Institutional Transformation	Lynn Gazley
21	Humanities and Social Sciences	Women's, Gender and Sexuality Studies	Diamond Urey	Exploring African Girlhood Studies	Marla Jaksch
22	Nursing and Health Sciences / Arts and Communication	Nursing / IMM	Elias Ananiadis, Samira Adam	Do Review Bites Improve Nurse Practitioner Student Learning?	Mary Ann Dugan and Ellen Farr
23	Nursing and Health Sciences	Nursing	Blessing Chidiking, Caroline Ocloo	Family Matters; Preventing Childhood Obesity By Providing Parents With Nutrition Tools Through a Family Systems Approach	Judy Harkins
24	Nursing and Health Sciences	Nursing	Simranjot Mann, Sarah Curtis	Congenital Heart Disease: Diagnostics, Treatment, and Screening Yesterday and Today	Tami L. Jakubowski
25	Nursing and Health Sciences	Nursing	Romy Zemer	The Evaluation of Therapeutic Communication in Competency Based Nursing Education	Tracy Perron
26	Nursing and Health Sciences	Public Health	Michael Gallo	Evidence on Social Capital and General Trust: results from a preliminary study	Carolina Marques-Borges
27	Nursing and Health Sciences	Public Health	Sofia Stanley, Kirthana Krishnamurthy, Ryan Turk	A Comparison of DNA Extraction Methods for Cryptosporidium parvum	Alexis Mraz
28	Nursing and Health Sciences	Public Health	Lisbet Garcia-Ortiz	Examining the Impact of Limited English Proficiency on Potentially Avoidable Hospitalizations	Sylvia Twersky
29	Science	Biology	Leann Janzekovich	Investigating The Evolution of Floral Traits Using Herbarium Specimen in Lonicera (Caprifoliaceae)	Wendy Clement
30	Science	Biology	Zahrah Shahbaz	Herbarium Trends In Fused and Unfused Leaves of L. Caprifolium & L. Periclymenum Using Herbarium Specimens	Wendy Clement
31	Science	Biology	Victoria Rocker, Saman Lone, Caslie Jean-Francois	Exploring Marine Invertebrate Exoskeleton Biomineralization	Gary Dickinson
32	Science	Biology	Jack Centrelli, Matthew Tsodikov	Investigating the cause of a brood size defect in ccpp-1 mutants.	Nina Peel
33	Science	Biology	Naileny Rodriguez	Investigating TTLL Enzyme Redundancy in Caenorhabditis elegans Cilia Using Male-mating Responses	Nina Peel
34	Science	Biology	Isabella Jacobs	uncp-18 the C. elegan's homolog of STXBP3 is required for fertility	Nina Peel
35	Science	Biology	Aliyah Siddiqui, Josie Maguire, Aimee Torres	Genetic Analysis of CYP72A Enzymes Involved in Corn Acclimation to Environmental Stress	Leeann Thornton
36	Science	Chemistry	Spandana Bondalapati	The Impact of N-Terminal Strand Removal on the Structure and Functionality of the S-Ena Pili on Bacterial Endospores	Joseph Baker
37	Science	Biology	Amrutha Swaminathan, Sophia Scholz, Brianna Daley, John Penafiel	Can Individual Responses to Environmental Variation Contribute to the Formation of New Species?	Matthew Wund
38	Science	Chemistry	Ayesha Chaudhry	Examining the impact of removing cross-linking disulfide bonds on the stability of an Ena Pilus filament under applied tension force	Joseph Baker
39	Science	Chemistry	Iknoor Grewal	Identifying Components of a Stable Docking Site for Histatin 5 on E.coli	Joseph Baker
40	Science	Chemistry	Karolina Wielowski	Determining the Strength of the Interaction Energies Between Subunits of Ena Pili Filaments through Steered Molecular Dynamics	Joseph Baker
41	Science	Chemistry	Sri Manyata Peddinti, Cristian Herrera Alpizar, Marianna Medina	Screening for inhibitors of bacterial metalloenzyme YtfE in silico and in vitro	Levi Ekanger
42	Science	Chemistry	Saimanish Dhulipala, Mubarak Rawe	New [PNP] Pincer Ligands to convert CO2 into value added feedstocks	Abby O'Connor
43	Science	Chemistry	Cassandra McDermott	Synthesis and Characterization of a Greener Alternative [NNN] Palladium complex for Bond Cleavage in Polymers	Abby O'Connor
44	Science	Chemistry	Kendall Villalobos	Suzuki-Miyaura Coupling Reactions involving Palladium Pincer Catalysts	Abby O'Connor
45	Science	Chemistry	Brayden Messinger	Synthesis of Nickel Catalysts for CO2 functionalization	Abby O'Connor
46	Science	Chemistry	Rachel Post, Nikki Williams	Understanding and quantifying proton-coupled electron transfer (PCET) in diarylamines	Giovanny Parada
47	Science	Computer Science	Kass Farnum, Milian Ingco, Liam Marquis, Elliot Topper	How Virtual Reality Sickness Affects The Brain	Sharif Mohammad Shahnewaz Ferdous
48	Science	Physics	Amanda Graessle	Spectral Energy Distributions of Evolved Stars	Lauranne Lanz
49	Science	Physics	Louis Miller	Using Python to Recreate Forward Modeling Analyses	Lauranne Lanz
50	Science	Physics	Josh Scally, James Kaufman	Supermassive Black Holes in Post Starburst Galaxies	Lauranne Lanz
51	Science	Physics	Skyler Keyek	The Effect of Unknown Planets on Mass Estimates	Mariah MacDonald
52	Science	Physics, Astronomy & Astrophysics	Skylar D'Angiolillo	Statistically Determining Planetary Detectability from TTVs	Mariah MacDonald and Daniel Fabrycky
53	Science	Physics	Daniel Patterson, Nick Calabrese	Exoplanetary Orbital Resonance Amplitude Optimization Using Python	Mariah MacDonald
54	Science	Physics	Sam Ehret, Duro Ajayi, Hector Arroyo	Urban Heat Island	Nathan Magee
55	Science	Physics	Christopher Baker	SEM + AFM Imaging of Microstructures of Polymer Films	David McGee
56	Science	Chemistry	Henry Brandstadter, Anthony Cuccurullo, Jennifer Goldstein, Caroline Devine	Computational Studies on Isoprenoid Metabolism in Lepidopteran Insects	Stephanie Sen
57	Science	Computer Science	Eden Espinosa, Mila Manzano, Kristen O'Donnell	Neuro-Cognitive Modeling of Environments, and Humans	Sejong Yoon