

Undergraduate Podium Presentations TUESDAY 4.2.24

MCSC 249 | Biomedical Sciences Human Health 9:00 AM - 10:45 AM

- UPM01 9:00-9:15 **Isaiah Proctor**, Downregulation of Desmosomal Genes Contributes to Skin Fragility in AEC Syndrome
- UPM02 9:15-9:30 **Saumya Vithalkar**, Exploring the Connection Between Neurons and Germ Cell Maintenance
- UPM03 9:30-9:45 **Kayleigh Fields**, Naloxone Availability in Retail Pharmacies Across the United States
- UPM04 9:45-10:00 **Briana Lewis**, Implementation of Medication Disposal Boxes in Pharmacies Across the United States
- UPM05 10:00-10:15 **William Outlaw**, Investigating the Role of SRPK on Germline Stem Cell Number in the *Drosophila* Germarium
- UPM06 10:15-10:30 **Katherine Freakley**, Digging into the Taphonomy of Human Subadult Remains Interred in Iron Coffins from the Rhem Family Vault, New Bern, North Carolina
- UPM07 10:30-10:45 **Nandini Vishwakarma**, Discovering the Mysterious Effects of Intracardiac Dopamine Receptor Signaling

Moderator: Dr. Taylor Johnson

Judge: Dr. Xian Wu

MCSC 253 | Engineering Technology and Computer Sciences 9:30 AM - 11:00 AM

- UPM08 9:30-9:45 **Heath Faircloth**, Material Property Investigation of Common 3D Printer Filaments
- UPM09 9:45-10:00 **Austin Patrey**, Affordable Pop-Up Homes
- UPM10 10:00-10:15 **Kenechukwu Nwadiaro**, Using Computational Fluid Dynamics to Simulate Blood Flow Through Different Banding Geometries of Arteriovenous Fistulas
- UPM11 10:15-10:30 **Benjamin Damm**, Revitalization of Legacy Cities Utilizing Sustainable Design Practices
- UPM12 10:30-10:45 **Wyatt Searles**, Deployment of EV Charging Stations in Commercial Applications Using Photovoltaic Canopies
- UPM13 10:45-11:00 **Elizabeth Lambert, Samantha Knox, Oasis Lopez, Alexander Harris** Live Light Research Analysis

Moderator: Adam Bodunrin

Judge: Dr. Suranga K Gunerathne

MCSC 200 | Business, Community Engagement Education, Humanities 10:00 AM - 11:45 AM Interdisciplinary Innovation, Visual Art and Design

- UPM14 10:00-10:15 **Jade McNeill**, Amplifying Our Voices: Exploring Black Women Student Leaders Experiences at East Carolina University
- UPM15 10:15-10:30 **Brady McKay**, Using Drone Imagery to Analyze Post Disaster Recovery
- UPM16 10:30-10:45 **Mackenzie Hudson**, Beyond the Game: Analyzing Fan Bases and Sponsorship Landscapes in North Carolina's Sports Teams
- UPM17 10:45-11:00 **Arthur Schupbach**, "It's not that simple. With the Joker, it never is." Othello and The Dark Knight
- UPM18 11:00-11:15 **Evan Thornton**, The Convertibility Theory and Privation of Evil, An Analysis of Arguments
- UPM19 11:15-11:30 **Hayley Whoolery**, The Individual Village: Exploring Stylization Through 3D Modeling
- UPM20 11:30-11:45 **Meredith Wells**, Responding to Student Housing Insecurity at East Carolina University

Moderator: Dr. Randall Etheridge

Judge: Dr. Dennis McCunney

MCSC 249 | Natural Sciences 1:00 PM - 3:30 PM

- UPM21 1:00-1:15 **Eden Stainback**, Courting Male Ruff Sandpipers (*Philomachus pugnax*): Do Males Vary Their Tactics in the Absence of One Morph?
- UPM22 1:15-1:30 **Mason Verhaeghe**, Critical Analysis of the Impact Inherent and Applied Tension Have on Fibrinolysis
- UPM23 1:30-1:45 **Cameron Grey**, Sexual Dimorphism, Throat Coloration, and the Evolution of Gene Expression in Threespine Stickleback Brain Tissue
- UPM24 1:45-2:00 **Charles Brooks**, Examining Population Genetics and Disease Incidence in Local Grass Shrimp Species
- UPM25 2:00-2:15 **Kai Davis**, Evaluating Plant-Microbe Associations in Response to Environmental Stressors to Enhance Wetland Restoration

2:15-2:30

BREAK

Undergraduate Podium Presentations TUESDAY 4.2.24

MCSC 249 | Natural Sciences (cont'd) 2:30 PM - 3:30 PM

- UPM26 2:30-2:45 **Stefan Boromisa**, Effects of Auxin and Cytokinin on Cotton Shoot Proliferation *In Vitro*
- UPM27 2:45-3:00 **Amelia Moore**, Causes and Consequences of Timing of Ornamental Plumage Molt and Courtship in Captive Ruff Sandpipers (*Philomachus pugnax*)
- UPM28 3:00-3:15 **Victoria Gonzalez Mundarain**, Examining Human Fibrinogen's Molecular Structure Using Electron Microscopy
- UPM29 3:15-3:30 **Charlotte Grimes**, Effects of Oyster Reef Sanctuaries on Fish Abundance in Pamlico Sound

Moderator: Dr. Juan Beltran-Huarac

Judge: Dr. Adam Offenbacher

MCSC 200 | Social Sciences 1:00 PM - 3:30 PM

- UPM30 1:00-1:15 **Caramia Landis**, Stantonsburg Station: Transforming an Eastern North Carolina Historical Site
- UPM31 1:15-1:30 **Noah Walker**, College Students and Sharing Fake News on Social Media
- UPM32 1:30-1:45 **Macie Yao**, What Makes a Happy Couple? The Impact of Body Image, Attachment Style, and Mating Motives on Relationship Satisfaction
- UPM33 1:45-2:00 **Evan Thornton**, Overcoming Disparities in Disciplinary Practices in Rural Schools
- UPM34 2:00-2:15 **Mary Archibald**, Balancing Growth and Heritage: Affordable Workforce Housing's Role in Sustaining Small Town Charm and Economic Development in Beaufort County

2:15-2:30 BREAK

- UPM35 2:30-2:45 **Grace Messaoui**, The Impacts of Tourism on Jamaican Farming
- UPM36 2:45-3:00 **Taylor Smith**, The Effectiveness of Trauma Informed Strategies Training on Teachers Knowledge, Attitudes, and Interactions with Students in Rural Schools
- UPM37 3:00-3:15 **Cassidy Fitz-Randolph**, Rape Myth Adherence Among University Students
- UPM38 3:15-3:30 **Rachana Charla**, Emotional Laboring Through Birth: Insights from Doula Volunteers

Moderator: Abdulahi Opejin

Judge: Dr. Kirk Miller