



ΠΑΙΔΕΙΑ

PAIDEIA

CHRISTOPHER NEWPORT UNIVERSITY

—2016—



The Fifteenth Annual
UNDERGRADUATE AND GRADUATE
STUDENT RESEARCH CONFERENCE



Saturday, April 16, 2016

CHRISTOPHER NEWPORT UNIVERSITY
MCMURRAN HALL, DAVID STUDENT UNION AND
THE FERGUSON CENTER FOR THE ARTS

Special Thanks

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PAIDEIA 2016

The Fifteenth Annual

UNDERGRADUATE AND GRADUATE STUDENT RESEARCH CONFERENCE

ORGANIZED BY THE UNDERGRADUATE
AND GRADUATE RESEARCH COUNCIL

DR. LAURA GRACE GODWIN (CO-CHAIR) DR. ELIZABETH MORAN (CO-CHAIR)

DR. THOMAS HALL

DR. COSTA GEROUIS

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DR. BRIAN M. PUACA

DR. JILL RUSSETT

DR. MARK STEINER

BENJAMIN JOHNSON, UNIVERSITY FELLOW & STUDENT LIAISON

Saturday, April 16, 2016

CHRISTOPHER NEWPORT UNIVERSITY

PAIDEIA (PI-DAY-UH): *The classical Greek education of liberal learning*

*This conference was organized and sponsored by the University Graduate and Undergraduate
Research Council (UGRC) and Office of the Provost.*



KEYNOTE SPEAKER

Rebecca M. Howard

Rebecca M. Howard ('08) graduated from Christopher Newport with a bachelor's in fine arts, concentrating in art history with minors in business administration and studio art. She began her graduate career at the Ohio State University in 2009, completing her master's in Western art history in 2011. Howard is currently a PhD Candidate at Ohio State, specializing in the art of the Italian Renaissance. Her dissertation, "Movements of the Mind: Beyond the Mimetic Likeness in Early Modern Italy," will be completed later this year and considers various compositional formats in early modern Italian portraiture in conjunction with period understandings of the processes of vision and memory. She has presented her work on this subject at a number of conferences, including meetings of the Renaissance Society of America and the Sixteenth Century Society, graduate conferences at Cornell and Ohio State, and the Inaugural Conference in Paragone Studies in Flint, Michigan. Part of her work on Italian Re-

naissance portraits is set to appear in February 2017 in the journal of contemporary culture, *Reconstruction*. The article, "Technology at the Borders: From Lotto's Portrait Cover to Melhus' Televisions," compares the Renaissance portrait with a cover to contemporary forms of technology that also work as storage places for identity. While working on her dissertation, Howard teaches undergraduate art history courses and was recently nominated for Ohio State's Graduate Associate Teaching Award. In support of her research, she has won several grants, including Ohio State's Alumni Grant for Graduate Research and Scholarship, the History of Art Department's Catherine Murnane Travel Award, the College of Arts and Sciences Graduate Research Grant, and the Center for Medieval and Renaissance Studies' Nicholas G. Howe Memorial Grant. In 2015 Howard used these grants to conduct archival research and view artworks for her dissertation in Russia, Germany, Italy, France, Spain and the United Kingdom.

MCMURRAN HALL AND DAVID STUDENT UNION

SCHEDULE

8-9 a.m.	Breakfast	McMurrans Hall Lobby
8 a.m.-1:30 p.m.	Registration	McMurrans Hall Lobby
9-10:20 a.m.	Session I	McMurrans Hall Classrooms
10:20-10:30 a.m.	Snacks	McMurrans Hall Lobby
10:30 a.m.-12 p.m.	Session II	McMurrans Hall Classrooms
12-1:20 p.m.	Poster Session I <i>Authors Present</i>	David Student Union Breezeway
12-1:10 p.m.	Lunch	McMurrans 101
12:20-1 p.m.	Keynote Address: Rebecca Howard, Class of 2008	McMurrans 101
	Announcement of 2016 UGRSA Award Winners	
1-3 p.m.	Reception	David Student Union Boardroom
1:20-3 p.m.	Session III	McMurrans Hall Classrooms
1:40-3 p.m.	Poster Session II <i>Authors Present</i>	David Student Union Breezeway

ADDITIONAL EVENTS AT THE FERGUSON CENTER FOR THE ARTS

ARTCNU SENIOR THESIS EXHIBITION

All Day

Falk Gallery – Ferguson Center

Julie Fortney	Jenna Hawkins	Ryan Lytle	Connor Tapscott
Zach Gotschalk	Jack Hurley	Bertie Piatt	Lauren Tatro
Tara Hart	Caleb Jenkins	Sarah Roach	Erin Tenny
	Ashley Lloyd	Graciela Slyer	Rachel Tomlin

THEATERCNU DANCE PRESENTATIONS

Chaired by Professor Ann Mazzocca

Ferguson Center Dance Studio

11 a.m.

*Scores/Improvisation/Composition:
A Demonstration of Postmodern Dance Tactics*

Caitlin Caplinger	Emilee Perkins	Casey Sciance
Arissa Guerrero	Martha Platenkamp	Jennifer Westerholm
Chelsea Hart	Jeanette Rybarczyk	

*Danced Divinities:
Afro-Caribbean Folkloric Interpretations in Progress*

Natalie Buckley	Sarah Hoy	Karla Young
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*Venus
choreographed by Casey Sciance*

Allison Baltz	Kelsey Langford	Kaitlen Parker
Jennifer Brown	Rachel Massey	Rachel Wirth

ADDITIONAL EVENTS AT THE FERGUSON CENTER FOR THE ARTS

ARTCNU SENIOR THESIS EXHIBITION RECEPTION

12 p.m.

Falk Gallery — Ferguson Center

ART HISTORY SENIOR SYMPOSIUM

Chaired by Dr. Michelle Erhardt

Ferguson Center 201
1 p.m.

*“Demonizing the Snake: Constricting the Iconography of
Pre-Contact Mesoamerica”*

Emily Harden

*“Pagan Serpents in Paradise: The Emergence of
Anguipedes in Italian Renaissance Art”*

Clanci Jo Conover

*“Masking Sex as Sin: The Rise of the Witch in
Early Modern Art”*

Alex Kortenhoeven

*“Raptus, Raptio, Ravish: The Glorification of Rape
in 17th-Century Art”*

Ashley Lloyd

*“What Would Walt Do?': A Critical Analysis of the Disney
Renaissance and Its Roots in the Company's Past”*

Shelby Jones

*“Something Borrowed, Something New: The Adoption of
Western Symbolism in Contemporary Japanese Weddings”*

Taylor Lindner

THEATERCNU PERFORMANCE — “Macbeth” by William Shakespeare

Directed by Jim Iorio, featuring the work of CNU students:

Ferguson Center Studio Theatre

8 p.m.

Glenn Abernathy

Emma Berry

Ben Brackley

Natalie Buckley

Caitlin M. Caplinger

Joshua Carias

Sara Carpenter

Anna Chekalkina

Cheyenne Christopher

Ian Claar

Rylee Daniels

Christian Deger

Theron Duitman

Jessie Dwyer

Alexis Eno

Shannon Farrow

Kimberly Fonseca

Cian Girven

Cody Hall

Rachel Ingle

Alex James

Ran Johnson

Kendall Khan

Derek Martin

Lauren McCaffrey

Meg Morrill

Elizabeth Newton

Jonathan Price

Alexandra Reed

Nate Ritsema

Emily Grace Rowson

Patrick Siegmund

Charlotte Topp

Ellie Wilder

Gabi Wright

SESSION I 9–10:20 A.M.

AMERICAN STUDIES, GOVERNMENT & LEADERSHIP

McMURRAN 112 • Moderator: Dr. Andrew Kirkpatrick

9-9:20 a.m.

The Maliseet and Indigenous Peoples' Relations With Canada and the United States: A History & Leadership Analysis of the Maliseet
Nicholas Abbott, faculty sponsor: Dr. Ron Sheffield

9:20-9:40 a.m.

Community Building & Roles of Leadership in Different Cultures
Asa Townsend, faculty sponsor: Professor Nathan Harter, JD

9:40-10 a.m.

Romulus Whitaker: A Leader of Ethics, Charisma & Conservation
Christopher Hanks, faculty sponsor: Dr. Andrew Kirkpatrick

BUSINESS & LEADERSHIP I

McMURRAN 114 • Moderator: Dr. Angela Spranger

9-9:20 a.m.

What CEOs Develop That Academia Disguises
John McGuinness, faculty sponsor: Dr. Angela Spranger

9:20-9:40 a.m.

Reality and Leadership
Maria Greso, Rashon Woody, Jessica Webb and Matt Lilly,
faculty sponsor: Dr. Angela Spranger

9:40-10 a.m.

Leadership in Business Under Globalization
Yufei Meng, faculty sponsor: Dr. Angela Spranger

CIVIC ENGAGEMENT & SOCIAL ENTREPRENEURSHIP I — GAY RIGHTS & GENDER EQUALITY

McMURRAN 160 • Moderator: Dr. Stephanie Bardwell

9-9:20 a.m.

Gay Rights Movements Comparison Through Cross-National Observations
Erin Boyer, faculty sponsor: Dr. Stephanie Bardwell

9:20-9:40 a.m.

Gender Inequality in Education From a Global Perspective
Chelsea Ellis, faculty sponsor: Dr. Stephanie Bardwell

9:40-10 a.m.

A Cross-Country Comparison of Factors Influencing Gender-Based Abortion & Female Adoption
Annie Cecil, faculty sponsor: Dr. Stephanie Bardwell

SESSION I 9–10:20 A.M.

COMMUNICATION STUDIES

McMURRAN 162 • Moderator: Jennifer Billinson

9-9:20 a.m.	<i>No Excuses: An Analysis of Pitspo & Thinspo Media on Tumblr</i> <u>Mary DeChristopher</u> , faculty sponsor: Professor Jennifer Billinson
9:20-9:40 a.m.	<i>Social Media Communication: What Is a 'Like' ?</i> <u>Martin Gross</u> , faculty sponsor: Professor Jennifer Billinson
9:40-10 a.m.	<i>Humans Inside the Homeless</i> <u>Margaret Comita</u> , faculty sponsor: Dr. Danielle Stern
10-10:20 a.m.	<i>Online Gaming: A Source of Gendered Harassment</i> <u>Kaila Calhoun</u> , faculty sponsor: Dr. Danielle Stern

ENGLISH I

McMURRAN 164 • Moderator: Dr. Jean Filetti

9-9:20 a.m.	<i>Driven Psycho: An Analysis of the Result of Sexual Intimacy on the Morality, Sanity & Well-Being of Men & Women in Alfred Hitchcock Films</i> <u>Emma Oliver</u> , faculty sponsor: Dr. Jean Filetti
9:20-9:40 a.m.	<i>Speaking the Third Space: Talk-Story & Gendered Culture in <u>The Woman Warrior</u></i> <u>Emily Garnier</u> , faculty sponsor: Dr. Jean Filetti
9:40-10 a.m.	<i>The Capitol's Manipulation of Broadcast Media in <u>The Hunger Games</u></i> <u>Stephanie Cobb</u> , faculty sponsor: Dr. Nicole Emmelhainz
10-10:20 a.m.	<i>The Case for Sherlock Holmes: Deducing the Adventures of Sherlock Holmes as a Short-Story Cycle</i> <u>Gracie Desantis</u> , faculty sponsor: Dr. Roark Mulligan

SESSION I 9–10:20 A.M.

ENGLISH II

McMURRAN 207 • Moderator: Dr. Trevor Hoag

9-9:20 a.m.

Theory & Ethics: Hemingway vs. hooks & Freud
Joshua Rinker, faculty sponsor: Dr. Trevor Hoag

9:20-9:40 a.m.

Freud, Caruth and Neutral Milk Hotel
Charles Dunn, faculty sponsor: Dr. Trevor Hoag

9:40-10 a.m.

Israeli-Palestinian Literature & the Gift of Self
Lauren Lee, faculty sponsor: Dr. Scott Pollard

10-10:20 a.m.

*Collective Identities Create Normality During the
Palestinian-Israeli Conflict*
Emily Coffey, faculty sponsor: Dr. Scott Pollard

HISTORY I

McMURRAN 210 • Moderator: Dr. Brian Puaca

9-9:20 a.m.

*A Moral Assessment of the Justifications & Actions of
the First Crusade*
Bruce Schlesman, faculty sponsor: Dr. Shumet Sishagne

9:20-9:40 a.m.

*Origins of Representations: Homosexuals on Film in
Postwar Era America*
Alexander Szymanski, faculty sponsor: Dr. Laura Puaca

9:40-10 a.m.

Adoption in Postwar America: 1945–1975
Hannah Mills, faculty sponsor: Dr. Laura Puaca

HISTORY II — NEW PERSPECTIVES ON AMERICA'S WAR IN VIETNAM

McMURRAN 212 • Moderator: Dr. Andrew Falk

9-9:20 a.m.

*The Feminine Vietnam: The Role & Effect of American Women
in the Vietnam War*
Ryan Densley, faculty sponsor: Dr. Andrew Falk

9:20-9:40 a.m.

*Hanoi Jane's Soundtrack: The Effectiveness of Celebrities &
Musicians as Antiwar Activists*
Lindsay Hall, faculty sponsor: Dr. Andrew Falk

9:40-10 a.m.

Invisible Illness: Mental & Emotional Consequences of Vietnam
Kathleen Horning, faculty sponsor: Dr. Andrew Falk

SESSION I 9–10:20 A.M.

MODERN & CLASSICAL LANGUAGES & LITERATURES I — RESISTING ROME

McMURRAN 216 • Moderator: Dr. Rosa Motta

9–9:20 a.m.

Defining 'Sicilian': Identity & Romanization in Sicily
Catherine Avino, faculty sponsor: Dr. Rosa Motta

9:20–9:40 a.m.

Romanizing the Rebels: A Comparison of the Early & Later Rebellions in Britannia
Emily Forbes, faculty sponsor: Dr. Rosa Motta

9:40–10 a.m.

Geography & Power: From Caesar to Trajan in North Western Europe
Henry Schofield, faculty sponsor: Dr. Rosa Motta

10–10:20 a.m.

The Resistance of Roman Influence in the City of Trier
Colin Tribble, faculty sponsor: Dr. Rosa Motta

SOCIOLOGY, SOCIAL WORK & ANTHROPOLOGY

McMURRAN 260 • Moderator: Dr. Linda Waldron

9–9:20 a.m.

The Treatment & Education of Indigenous Peoples: A Cross-Country Comparison
Mariah James, faculty sponsor: Dr. Stephanie Bardwell

9:20–9:40 a.m.

The Effects of Capital on Post-Secondary Attainment in Rural Schools
Annie Jones, faculty sponsor: Dr. Linda Waldron

9:40–10 a.m.

Who's Going to Take Care of My Parents?: A Portrait of Life Inside a Nursing Home
Maxwell Everett, faculty sponsor: Dr. Andria Timmer

10–10:20 a.m.

A Global Comparison of Approaches to the Issue of Mental Health Services: International Observations
Hannah Phelps, faculty sponsor: Dr. Stephanie Bardwell

— THIS ENDS SESSION I —

SESSION II 10:30 A.M.–12 P.M.

ECONOMICS & INTERDISCIPLINARY STUDIES – THE ECONOMY (& CLIMATE CHANGE)

McMURRAN 112 • Moderator: Dr. Tom Hall

10:30-10:45 a.m.	<i>Models, Markets & Mitigation: A New Approach to Climate Change</i> <u>Dagney Palmer</u> , faculty sponsor: Dr. Jay Paul
10:45-11 a.m.	<i>Economic Consequences of Declining Honey Bee Populations</i> <u>Mitchell Bennett</u> , faculty sponsor: Dr. Andrew Kirkpatrick
11-11:15 a.m.	<i>Why China Is Not Stealing American Jobs: An Analysis of International Trade</i> <u>Dylan Kramer</u> , faculty sponsor: Dr. Michelle Vachris
11:15-11:30 a.m.	<i>Literature Review of Cultural Globalization in Ireland: The End of the Celtic Tiger?</i> <u>Patrick Devens</u> , faculty sponsor: Dr. Qingyan Tian
11:30-11:45 p.m.	<i>The Effects of Austerity in the European Union Sovereign Debt Crisis</i> <u>Matthew James Byrom</u> , faculty sponsor: Dr. George Zestos

BUSINESS & LEADERSHIP II

McMURRAN 114 • Moderator: Dr. Angela Spranger

10:30-10:45 a.m.	<i>Generations in Business Leadership</i> <u>Erin Myers</u> , faculty sponsor: Dr. Angela Spranger
10:45-11 a.m.	<i>Business Leadership Traits Gained From Military Experience</i> <u>Kyle Bucklew</u> , faculty sponsor: Dr. Angela Spranger
11-11:15 a.m.	<i>Gender in Business Leadership</i> <u>Julia Davis</u> , faculty sponsor: Dr. Angela Spranger
11:15-11:30 a.m.	<i>Hybrid Leadership: A Series of Case Studies</i> <u>Asa Townsend, Emma Brown, Brenten Hurt, Kevin Purdy and David Scott</u> , faculty sponsor: Dr. Qingyan Tian

SESSION II 10:30 A.M.–12 P.M.

BIOLOGY

McMURRAN 160 • Moderator: Dr. Tarek Abdel-Fattah

10:30-10:45 a.m.	<i>Comparison of Aqueous Cobalt Solutions & Deposited Films in Hydrogen Evolution Reactions</i> <u>Clay Huff</u> , faculty sponsor: Dr. Tarek Abdel-Fattah
10:45-11 a.m.	<i>Fabrication of Supercapacitors Incorporating Polypyrrole, Carbon Nanotubes & Iron Nanoparticles</i> <u>Ruben De La Rosa</u> , faculty sponsor: Dr. Tarek Abdel-Fattah
11-11:15 a.m.	<i>Fitness & Resource Allocation in Fly Poison (Amianthium muscaetoxicum)</i> <u>Lauren Nash</u> , faculty sponsor: Dr. Janet Steven
11:15-11:30 a.m.	<i>Tree Rings in Atlantic White Cedar: Testing a New Restoration Tool</i> <u>Abigail Weaver</u> , faculty sponsor: Dr. Robert Atkinson
11:30-11:45 a.m.	<i>Utilizing Behavioral Analysis to Examine the Neuroprotective Effects of Methylene Blue on a Mouse Model of Alzheimer's Disease</i> <u>Stephen Fink</u> , faculty sponsor: Dr. Lisa Webb

CIVIC ENGAGEMENT & SOCIAL ENTREPRENEURSHIP II – HEALTH EDUCATION & GLOBAL CONCERNS

McMURRAN 162 • Moderator: Dr. Jill Russett

10:30-10:45 a.m.	<i>A Global Analysis of Contraception & Family Planning Policies</i> <u>Ayla Peacock</u> , faculty sponsor: Dr. Stephanie Bardwell
10:45-11 a.m.	<i>Impact of Sexual Health Education on Quality of Life Around the World</i> <u>Michelle Carman-McClanahan</u> , faculty sponsor: Dr. Stephanie Bardwell
11-11:15 a.m.	<i>A Global Comparison of Approaches to the Issue of Early Childhood Care & Education: Observations From the United States, France, South Korea, South Africa, Ethiopia, Jordan & Ecuador</i> <u>Courtney Cox</u> , faculty sponsor: Dr. Stephanie Bardwell

SESSION II 10:30 A.M.–12 P.M.

ENGLISH III

McMURRAN 164 • Moderator: Dr. Kara Keeling

10:30-10:50 a.m.	<i>Silence & Kicking: The Reactions of Children to Traumatic Violence</i> <u>Wesley Watkins</u> , faculty sponsor: Dr. Kara Keeling
10:50-11:10 a.m.	<i>Unethical Treatment in <u>The Hunger Games</u></i> <u>Whitney Leach</u> , faculty sponsor: Dr. Kara Keeling
11:10-11:30 a.m.	<i>Breaking the Rules in Historical Fiction</i> <u>Eileen Murphy</u> , faculty sponsor: Dr. Kara Keeling
11:30-11:50 a.m.	<i>Mental Illness in Adolescent Literature</i> <u>Kayla Walling</u> , faculty sponsor: Dr. Kara Keeling

GOVERNMENT, INTERDISCIPLINARY STUDIES & POLITICAL SCIENCE – CURRENT EVENTS & QUALITY OF LIFE

McMURRAN 207 • Moderator: Dr. John Camobreco

10:30-10:50 a.m.	<i>Marriage Equality: Essentialism Meets Intersectionality, an Analysis in Anti-Racism, Feminism & Classicism</i> <u>Samuel Foxhall</u> , faculty sponsor: Dr. John Camobreco
10:50-11:10 a.m.	<i>America Divided: Impacts of Partisan Polarization on the Modern Political System</i> <u>Jordan Massey</u> , faculty sponsor: Dr. John Camobreco
11:10-11:30 a.m.	<i>The Impact of Terror Attacks on the Economy & the Quality of Life</i> <u>Shane Kehl</u> , faculty sponsor: Dr. Stephanie Bardwell

MUSIC

McMURRAN 210 • Dr. Danielle Ward-Griffin

10:30-10:45 a.m.	<i>Once More, With Feeling: Music in <u>Buffy the Vampire Slayer</u></i> <u>Jacquelyn Pileckas</u> , faculty sponsor: Dr. Danielle Ward-Griffin
10:45-11 a.m.	<i>World Music in the Background: Getting Americans Engaged</i> <u>Kerry Troy</u> , faculty sponsor: Dr. Danielle Ward-Griffin
11-11:15 a.m.	<i>What's So American About Opera?</i> <u>Steven Field</u> , faculty sponsor: Dr. Danielle Ward-Griffin

SESSION II 10:30 A.M.–12 P.M.

HISTORY III – CONFLICTED MOTIVES & MEMORIES OF THE VIETNAM WAR

McMURRAN 212 • Moderator: Dr. Andrew Falk

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| 10:30-10:50 a.m. | <i>Johnson's War: How the Search for Public Approval Contributed to War in Vietnam, 1963–1968</i>
<u>Rizan Salous</u> , faculty sponsor: Dr. Andrew Falk |
| 10:50-11:10 a.m. | <i>McNamara & Johnson: A Study on Vietnam Memory</i>
<u>Lynnsey Delgrande</u> , faculty sponsor: Dr. Andrew Falk |
| 11:10-11:30 a.m. | <i>Remembering Vietnam: The Memories of the Key Participants</i>
<u>Michelle Harris</u> , faculty sponsor: Dr. Andrew Falk |

PHYSICS, COMPUTER SCIENCE & ENGINEERING/MATHEMATICS

McMURRAN 216 • Moderator: Dr. Aaron Koehl

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| 10:30-10:50 a.m. | <i>The Analysis of PHONN, THONN & SPHONN</i>
<u>Chenrui Hu</u> , faculty sponsor: Dr. Ming Zhang |
| 10:50-11:10 a.m. | <i>Web Classifier: Implementing a Web Crawler to Gather Data & Classify Different Web Pages Into Predefined Categories for Bot Detection</i>
<u>Courtney Duquette</u> and <u>Carolyn Lynch</u> , faculty sponsor: Dr. Aaron Koehl |
| 11:10-11:30 a.m. | <i>Voice-Controlled Drone</i>
<u>Trevor Anderson</u> , faculty sponsor: Dr. Aaron Koehl |
| 11:30-11:50 a.m. | <i>Box-Counting Dimension of the middle-L Cantor Set</i>
<u>Matthew McCarthy</u> , faculty sponsor: Dr. Mihaela Dobrescu |

PSYCHOLOGY & COMMUNICATIONS

McMURRAN 260 • Moderator: Dr. Jeffrey Gibbons

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| 10:30-10:50 a.m. | <i>The Effects of Source & Priming on the Recognition & Believability of Headlines</i>
<u>Sarah Davis</u> , faculty sponsor: Dr. Jeffrey Gibbons |
| 10:50-11:10 a.m. | <i>Fading Affect Bias With Events Involving Social Media & Non-Social Media</i>
<u>Rhianan Banks</u> , faculty sponsor: Dr. Jeffrey Gibbons |
| 11:10-11:30 a.m. | <i>A New Conversation: A Constructionist Analysis of How Technology & Commercialism Is Changing Societal Discourse in China</i>
<u>Jack Jacobs</u> , faculty sponsor: Dr. Chris Loy |

— THIS ENDS SESSION II —

POSTER SESSION I 12–1:20 P.M.

Authors Present • Location: David Student Union Breezeway

- The Structural Determination of D25: A Polysaccharide Deacetylase***
May Nicholson, faculty sponsor: Dr. Kathryn Cole
- Exploring the Biochemical Effects of Methylene Blue on a Triple Transgenic Mouse Model of Alzheimer's Disease***
Benjamin Genovese, faculty sponsor: Dr. Lisa Webb
- Investigation Into the Efficacy of the IP-143 Method for the Separation of Asphaltenes From Bulk Crude Oils***
Melissa Rizor, faculty sponsor: Dr. Geoffrey Klein
- Enhancement of Precision Associated With the Determination of the Flocculation Onset Point in a Heavy Crude Oil***
Kristen Laukaitis, faculty sponsor: Dr. Geoffrey Klein
- Gold Nanoparticle Catalysts for Hydrogen Generation***
Mitchell Horten, faculty sponsor: Dr. Tarek Abdel-Fattah
- Supported Heterogeneous Gold Nanoparticles as a Catalyst for the 4-Nitrophenol Hydrogen Reaction***
Angelica Jusino, faculty sponsor: Dr. Tarek Abdel-Fattah
- Zebrafish (*Danio rerio*) Preference for Social Reward or Food Reward in Instrumental Conditioning***
Jensina Burstein, faculty sponsor: Dr. Andrew Velkey
- Synergistic Signaling Relationships During Cell Migration***
Nicole Gould, Brenten Hurt and Samantha Christensen,
faculty sponsor: Dr. Christopher Meighan
- Synthesis of Dihydropyrans using a 2nd Generation Tandem Reagent***
John Halonski, faculty sponsor: Dr. Jeffrey Carney
- Biological Decontamination of Water Using Non-Thermal Plasma Treatment***
William Pell, faculty sponsor: Dr. Tarek Abdel-Fattah
- The Chemistry & Biology of Polysaccharide Deacetylases***
Kurtis Braun, Brian Pisarcik, Destiney Redman and Kathryn E. Cole,
faculty sponsor: Dr. Kathryn Cole
- ¹⁵N Nuclear Magnetic Resonance Characterization of Reverse Micelle: Nitrate Ion Partitioning***
Andrew Simmons, faculty sponsor: Dr. Joshua Patterson
- Maintenance of Tropical Hummingbird Community Roles as Affected by Inter-species Competition & Resource Availability***
Kayla Vande Vrede, faculty sponsor: Dr. Michael Meyer
- Seed Dormancy in Fly Poison***
Cierra Sullivan, faculty sponsor: Dr. Janet Steven

POSTER SESSION I 12–1:20 P.M.

Authors Present • Location: David Student Union Breezeway

15. ***Assessment of Oyster Reef Health & Biodiversity on Biogenic Reef Structures in the Elizabeth River***
Shannon Fluharty, faculty sponsor: Dr. Russell Burke
16. ***Crane Island Eastern Expansion Oyster Mitigation Shellstring Survey: Oyster Spat Monitoring as Evaluation of Anthropogenic & Ecological Impacts in the Elizabeth River***
Boris Mewborn and Evan Monroe, faculty sponsor: Dr. Russell Burke
17. ***Heart Disease and the Good Society***
Benjamin Miller, faculty sponsor: Dr. Lori Underwood
18. ***The Interactive Effects of Estrogen & Stress***
Erin Mabry, faculty sponsor: Dr. Olga Lipatova
19. ***Alpha-1 Adrenergic Receptor Localization in the Ventral Periaqueductal Grey Area & the Rostral Linear Raphe Nuclei***
Sinda Fekir, faculty sponsor: Dr. Darlene Mitrano
20. ***The Auditory Thalamus Is Necessary for Expressing Tone-Off Delay Eyeblink Conditioning***
Sean Savage, faculty sponsor: Dr. Matthew Campolattaro
21. ***Influence of Stress on Retained Spatial Memory in Male & Female Rats***
Dawndra Dixon, faculty sponsor: Dr. Olga Lipatova
22. ***Behavior Tracking Indicates Preference for Live Conspecific Over Mirror Presentation in Adult Zebrafish (*Danio rerio*)***
Heather Kay, faculty sponsor: Dr. Andrew Velkey
23. ***Tribble Library Media Center SQL Database & Media Report Generator & Recommendation Application***
Adam Brakman, faculty sponsor: Dr. Aaron Koehl
24. ***Constructing a Radio Telescope for Detecting Jovian Aurora Emissions***
Erin Duncan, faculty sponsor: Dr. Anna DeJong
25. ***Design of a Reliable Spark Gap***
Robert Graham, faculty sponsor: Dr. David Gore

POSTER SESSION II 1:40–3 P.M.

Authors Present • Location: David Student Union Breezeway

1. ***Medial Geniculate Nucleus Inactivation Impairs Cross-Modal Eyeblink Conditioning***
Hayley Premo, faculty sponsor: Dr. Matthew Campolattaro
2. ***Association Between Sleep Apnea, Depression & Anxiety: A Literature Review***
Kristin Smith, faculty sponsor: Dr. Sherman Lee
3. ***The Santa Clara Brief Compassion Scale: A Literature Review***
Claire Murphy, faculty sponsor: Dr. Sherman Lee
4. ***Inclusion of Students With Autism Spectrum Disorder (ASD) in the Classroom: A Literature Review***
Whitney Leach, faculty sponsor: Dr. Sherman Lee
5. ***Age-Related Differences in the Fading Affect Bias in Autobiographical Memory***
Elizabeth Cloude, Leslie Rollins and Jeffrey Gibbons,
faculty sponsor: Dr. Leslie Rollins
6. ***Development of Pattern Separation during Childhood***
Elizabeth Cloude and Leslie Rollins, faculty sponsor: Dr. Leslie Rollins
7. ***Color Impacts Emotion & Cognitive Processing***
Jin Young Lee, faculty sponsor: Dr. Gayle Dow
8. ***Gender Differences in STEM Achievement & the Importance of Student Engagement in Middle School Students***
Turesa Gilchrist and Sara Dzurilla, faculty sponsor: Dr. Susan Antaramian
9. ***Political Affiliation & Moral Foundations***
Rachel Bongiovi, faculty sponsor: Dr. Jeffrey Niehaus
10. ***Facial Expressions of Emotion as Influenced by Early Experience***
Samantha Otto, faculty sponsor: Dr. Laurie Hunter
11. ***Fading Affect Bias Concerning Video Game Addiction Across Video Game & Non-Video Game Related Events***
Briana Bouldin, faculty sponsor: Dr. Jeffrey Gibbons
12. ***Using Social Media as a Behavioral Epidemiological Tool: Catching Pathogen Transmission in the Act***
Paige Bloomquist, faculty sponsor: Dr. Thomas Berry
13. ***Developing Creative Innovation Through Diversity & STEM***
Sarah Wagner, faculty sponsor: Dr. Gayle Dow
14. ***A Big Data Innovation to Sports & Athlete Management: Using the Ecological Momentary Assessment Method***
Caitlin Haworth, faculty sponsor: Dr. Thomas Berry

POSTER SESSION II 1:40–3 P.M.

Authors Present • Location: David Student Union Breezeway

15. ***Canvassing a Campus for Pro-Health Information: The Importance of Bulletin Boards***
Jessica Hanson, faculty sponsor: Dr. Thomas Berry
16. ***Teacher Perceptions of the Impact of Freedom Schools on Student Reading & Personal Growth***
Sarah Hoy, faculty sponsor: Dr. Tim Pressley
17. ***Group Dynamics of Undergraduate Research Using the CQR Method***
Lauren Thomas, faculty sponsor: Dr. Michelle Clark
18. ***False Recall Rates in the Deese-Roediger-McDermott Paradigm and a Specific and General Leading Question Paradigm in High School and University Students***
Emily Darugar, faculty sponsor: Dr. Jeffrey Gibbons
19. ***The Religious & Spiritual Struggles Scale: A Literature Review***
Benjamin Pearce and James Kent, faculty sponsor: Dr. Sherman Lee
20. ***Risks Associated With the Teratogen Valproate & Effectiveness of Usage Guidelines: A Literature Review***
Alejandra Diaz Del Valle, faculty sponsor: Dr. Sherman Lee
21. ***Police Use of Force***
Arisa Guerrero, faculty sponsor: Dr. Jeffrey Niehaus
22. ***The Role of Executive Functions in Health Literacy Authors: Erika M. Lopez, Kendall Horst, Alex Hoyes, Molly Welsh, Madison Whitehurst, Kelly B. Cartwright, and Nicole R. Guajardo***
Erika M. Lopez, faculty sponsor: Dr. Kelly B. Cartwright
23. ***Beyond Bruises: An Attachment & Attribution Theoretical Perspective on Psychologically Abusive Relationships***
Sarah Wallace, Megan Hutchinson, Catherine Ashman and Grace Zaylor, faculty sponsor: Dr. Alice Veksler
24. ***Childbirth: Which Side Will You Choose?***
Sommer Clegg and Madeline Bauer, faculty sponsor: Dr. Andria Timmer
25. ***The Effect of Socioeconomic Status on Health***
Lauren Shutler, faculty sponsor: Dr. Antonia Randolph
26. ***School Bullies***
Lauren Shutler, faculty sponsor: Dr. Linda Waldron

SESSION III 1:20–3 P.M.

BUSINESS II

McMURRAN 112 • Moderator: Dr. William Donaldson

1:20-1:40 p.m.

Independent Study: Alumni Engagement Survey

Nora Huston and Justin Saraniti,
faculty sponsor: Dr. William Donaldson

1:40-2 p.m.

Valuation of Special Situation Sports Facility

Marshall Segars, faculty sponsor: Dr. William Donaldson

2-2:20 p.m.

Undergraduate Research in Management

Victoria Feola, faculty sponsor: Dr. William Donaldson

2:20-2:40 p.m.

*A Study of Economic Freedom vs. Government Regulations
Impacting Small Businesses*

Anna Brinkley, faculty sponsor: Dr. Stephanie Bardwell

CIVIC ENGAGEMENT & SOCIAL ENTREPRENEURSHIP/POLITICAL SCIENCE – HUMAN TRAFFICKING & OTHER CRIMES AGAINST HUMANITY

McMURRAN 114 • Moderator: Dr. Crystal Shelton

1:20-1:40 p.m.

*Human Trafficking & Exploitation: A Problem in our Own Backyard
as Well as Across the World*

Caroline Pitarque, faculty sponsor: Dr. Stephanie Bardwell

1:40-2 p.m.

Identifying Causal Factors of Human Trafficking

Victoria Groves, faculty sponsor: Dr. Crystal Shelton

2-2:20 p.m.

*The Effect of Various Societal Factors on the Commission of
Intentional Homicide*

Rachel Hildebrand, faculty sponsor: Dr. Stephanie Bardwell

2:20-2:40 p.m.

A Global Concern: Female Infanticide

Caitlin Graney, faculty sponsor: Dr. Stephanie Bardwell

SESSION III 1:20–3 P.M.

CIVIC ENGAGEMENT & SOCIAL ENTREPRENEURSHIP III – DISABILITY RIGHTS & WOMEN'S RIGHTS

McMURRAN 160 • Moderator: Dr. Stephanie Bardwell

1:20-1:40 p.m.	<i>A Global Analysis of the Rights of Women</i> <u>Gabrielle Reed</u> , faculty sponsor: Dr. Stephanie Bardwell
1:40-2 p.m.	<i>Women's Participation in Society & Representation in Government: An International Comparison</i> <u>Emma Brown</u> , faculty sponsor: Dr. Stephanie Bardwell
2-2:20 p.m.	<i>Effects of International Intellectual Disability Programming</i> <u>Kaila Calhoun</u> , faculty sponsor: Dr. Stephanie Bardwell
2:20-2:40 p.m.	<i>Compliance With the Americans With Disabilities Act of 1990: An Analysis</i> <u>Aaron Lin</u> , faculty sponsor: Dr. Stephanie Bardwell

MODERN & CLASSICAL LANGUAGES & LITERATURES II

McMURRAN 162 • Moderator: Dr. Rocio Gordon

1:20-1:40 p.m.	<i>'I Am, Therefore, I Rebel': The Identity Struggle in Dystopian Literature</i> <u>Taylor Jackson</u> , faculty sponsor: Dr. Michael Mulryan
1:40-2 p.m.	<i>The Political Implications of a 'Knockout' Moment: An Analysis of Julio Cortazar's <u>Apocalipsis de Solentiname</u></i> <u>Kevin Purdy</u> , faculty sponsor: Dr. Rocio Gordon
2-2:20 p.m.	<i>Voces Inocentes & Child Soldiers in El Salvador</i> <u>Michelle Brophy</u> , faculty sponsor: Dr. Rocio Gordon

SESSION III 1:20–3 P.M.

ENGLISH IV

McMURRAN 164 • Moderator: Dr. Kara Keeling

1:20-1:40 p.m.

Of Sound Mind & Body

Eileen Murphy, faculty sponsor: Dr. Kara Keeling

1:40-2 p.m.

Somebody to Love: Exploring Adolescent Identity Formation in Literature

Matthew Noyes, faculty sponsor: Dr. Kara Keeling

2-2:20 p.m.

The Value of a Ghost Story

Kayla Walling, faculty sponsor: Dr. Kara Keeling

2:20-2:40 p.m.

You're Beautiful?

Haylee Lewis, faculty sponsor: Dr. Kara Keeling

ENGLISH V

McMURRAN 207 • Moderator: Dr. Andrew Rose

1:20-1:40 p.m.

The Story Never Told: The Sustaining Power of Native American Culture in Leslie Silko's Ceremony

Sarah Allman, faculty sponsor: Dr. Andrew Rose

1:40-2 p.m.

Researching the Environment: Knowledge-Formation & the Profit Motive in Karen Yamashita's Through the Arc of the Rainforest

Samantha Kennedy, faculty sponsor: Dr. Andrew Rose

2-2:20 p.m.

Gender & Heteronormativity in Barbara Kingsolver's Prodigal Summer

Sarah Kerndt, faculty sponsor: Dr. Andrew Rose

2:20-2:40 p.m.

Environmental Justice Literature: Exploring the Intersections of Race, Class and Gender in Late 20th-Century U.S. Fiction

Sarah Kerndt, faculty sponsor: Dr. Andrew Rose

SESSION III 1:20–3 P.M.

ENGLISH VI

McMURRAN 210 • Moderator: Dr. Ivan Rodden

1:20-1:40 p.m.	<i>JANE</i> <u>Gracie Desantis</u> , faculty sponsor: Dr. Ivan Rodden
1:40-2 p.m.	<i>Waterworks</i> <u>Victoria Lurie</u> , faculty sponsor: Dr. Ivan Rodden
2-2:20 p.m.	<i>The Last Letter</i> <u>Elizabeth Tyree Herrn</u> , faculty sponsor: Dr. Ivan Rodden
2:20-2:40 p.m.	<i>Retouching the Past</i> <u>Kristin Summerson</u> , faculty sponsor: Dr. Ivan Rodden

PHILOSOPHY & RELIGIOUS STUDIES

McMURRAN 212 • Moderator: Dr. Matthew Homan

1:20-1:40 p.m.	<i>Susa-no-o: A God in Shift</i> <u>Adam Munzert</u> , faculty sponsor: Dr. John Thompson
1:40-2 p.m.	<i>A Race of Exiles: The Universal Experience of Humanity as Depicted in Albert Camus' <u>Exile and the Kingdom</u></i> <u>Jack Jacobs</u> , faculty sponsor: Dr. Roark Mulligan
2-2:20 p.m.	<i>Radical Functionalism in Spinoza</i> <u>David Harmon</u> , faculty sponsor: Dr. Matthew Homan

SESSION III 1:20–3 P.M.

THEATER

McMURRAN 216 • Moderator: Dr. Laura Grace Godwin

1:20-1:40 p.m.	<i>Experimental Theatre: An Examination of Its History, Efficacy & Audience Engagement</i> <u>Caitlin Caplinger</u> , faculty sponsor: Dr. Laura Grace Godwin
1:40-2 p.m.	<i>Seeing Yourself a Scientist: Science Theatre as a Creative Approach to Gender Equality in STEM Careers</i> <u>Shannon Farrow</u> , faculty sponsor: Professor Denise Gillman
2-2:20 p.m.	<i>'In thunder, lightning, or in rain?': The Effect of Lighting in Performances of <u>Macbeth</u> & <u>The Duchess of Malfi</u></i> <u>Ian Claar</u> , faculty sponsor: Dr. Laura Grace Godwin

PSYCHOLOGY

McMURRAN 260 • Moderator: Dr. Diane Catanzaro

1:20-1:40 p.m.	<i>The Fading Affect Bias in Alzheimer's Patients</i> <u>Hannah Nierle</u> , faculty sponsor: Dr. Jeffrey Gibbons
1:40-2 p.m.	<i>The Train System Is Confusing, & Why Must I Pay to Use the Restroom?: Improving Expatriate Worker Success Through I/O Psychology</i> <u>Maelyn Mahoney</u> , faculty sponsor: Dr. Diane Catanzaro
2-2:20 p.m.	<i>Personality & Creativity</i> <u>Timothy Koch</u> , faculty sponsor: Dr. Gayle Dow

— THIS ENDS SESSION III —



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