THE OHIO STATE UNIVERSITY

EDWARD F. HAYES

GRADUATE RESEARCH FORUM

Friday, February 28, 2020
Ohio Union
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Dear Guests,

Welcome to the 34th Annual Edward F. Hayes Graduate Research Forum at The Ohio State University. This unique collaboration between the Council of Graduate Students, the Graduate School, and the Office of Research enables Ohio State graduate students not only to present their cutting-edge research, but also to develop as professionals. I am pleased that you have joined us to celebrate the graduate research that takes place at this great university. We will be recognizing our top graduate students across multiple disciplines by awarding nearly $14,000 in cash prizes to support their research and long-term professional development.

The Hayes Forum Committee is extremely grateful to Mrs. Ann Hayes and her family for their continued support of Ohio State graduate student research endeavors. We also thank our faculty members who unsparingly gave their valuable time to support Ohio State graduate students by judging abstracts and the presentations and posters that will be presented today. The forum, organized for and by students, would not be possible without the generous support of Mrs. Hayes, our judges, and our volunteers. On behalf of the Council of Graduate Students, I thank you for your unwavering and continued support.

I would like to thank a few people in particular: the primary advisor, Kerry Hodak, for her knowledge and advice; Teresa Kempton-Dray and Rachel Conners for their administrative assistance; the graphics team, Johna Walls, Rose Buoni, and Abby Shaffer; our speakers, for dedicating their time to make the forum a more enriching experience; and the wonderful Hayes Committee for their dedication in making this event a success. Finally, a special thank you to the Graduate School for their support of graduate students.

The abstracts and presentations this year speak to a vibrant and diverse research community that seeks to address some of today’s most important issues. The caliber and range of scholarly work is truly inspiring and a privilege to learn from. Irrespective of your role today, I hope that what we have planned will provide you with a memorable experience. On behalf of the Council of Graduate Students, thank you to everyone who gave their time to support the Hayes this year.

Sincerely,

Libby Bauman
Vice President, Council of Graduate Students
Chair, Hayes Graduate Research Forum Committee
Dear Hayes Forum Attendees,

Welcome to the 34th annual Edward F. Hayes Graduate Research Forum. This collaboration between The Ohio State University’s Council of Graduate Students, the Graduate School, and the Office of Research provides a forum to celebrate your research accomplishments, present the findings of that research to the broader Ohio State community, and facilitate collaboration across campus.

As graduate students, you represent the next generation of researchers. Your creativity, ability to identify and solve problems, and drive to make and share new knowledge are crucial to the prosperity and well-being of our state, nation and world.

In addition to sharing your valuable research, the Hayes Forum is an occasion to forge connections and collaborations in meaningful new research endeavors. We encourage you to take advantage of this unique opportunity to learn from your colleagues across Ohio State.

We hope that you will be reinvigorated by your experience, and we wish you the very best in the presentation of your research.

Sincerely,

Alicia Bertone, DVM, PhD
Vice Provost for Graduate Studies and Dean of the Graduate School

Morley Stone, PhD
Senior Vice President for Research
ACADEMIC AREA ROOM ASSIGNMENTS

Oral Presentations

The Arts
Senate Chamber | 2nd Floor

Biological Sciences
Rosa M. Ailabouni Room | 3rd Floor

Business Session
Founders Room | 2nd Floor

Education & Human Ecology
Barbie Tootle Room | 3rd Floor

Engineering
Hays Cape Room | 3rd Floor

Food, Agricultural & Environmental Sciences
Maudine Cow Room | Lower Level

Humanities
Ohio Staters, Inc. Traditions Room | 2nd Floor

Mathematical & Physical Sciences
Suzanne M. Scharer Room | 3rd Floor

Health Sciences
Milestones Room | Lower Level

Social & Behavioral Sciences
Student-Alumni Council Room | 2nd Floor

Poster Presentations

Biological Sciences – Archie M. Griffin West Ballroom | 2nd Floor

Education and Human Ecology – Great Hall Meeting Room | 1st Floor

Food, Agricultural & Environmental Sciences – Archie M. Griffin West Ballroom | 2nd Floor

Health Sciences – Great Hall Meeting Room | 1st Floor

Math, Physical Sciences, & Engineering – Archie M. Griffin West Ballroom | 2nd Floor

Social & Behavioral Sciences – Great Hall Meeting Room | 1st Floor

Ohio Union Description by Floor

Lower Level
Maudine Cow Room
Creative Arts Room

1st Floor
Great Hall Meeting Room
US Bank Conference Theater

2nd Floor
Ohio Staters, Inc. Founders Room
Ohio Staters, Inc. Traditions Room
Student-Alumni Council Room
Senate Chamber
Cartoon Room

3rd Floor
Rosa M. Ailabouni Room
Suzanne M. Scharer Room
Interfaith Prayer and Reflection Room
7:30 – 7:50 a.m. | Registration
Great Hall Lobby | 1st Floor – Breakfast and networking session

7:50 – 8:20 a.m. | Welcome Addresses and Opening Session
U.S. Bank Conference Theater | 1st Floor

Host – Libby Bauman
Chair, Hayes Research Forum
Vice President, Council of Graduate Students
Master's Student, Education and Human Ecology

Speaker – Melissa Shivers, PhD
Vice President for Student Life

Speaker – Noah Weisleder, PhD
Director, Office of Postdoctoral Affairs
President of Ohio State Sigma Xi Chapter

8:30 a.m – 12 p.m. | Oral Presentations – Guests Welcome

8:40 a.m. – 12 p.m. | Poster Session – Guests Welcome

12 – 12:45 p.m. | Judges’ Deliberations
Deliberations are closed to the public

12:15 – 12:55 p.m. | Hayes Forum Professional Development Session:
Communicating Across Disciplines – US Bank Conference Theater | 1st Floor
Ana Berríos Allison, LPC, PhD
Assessment Specialist & Career Counselor,
Counseling & Consultation Services
Adjunct Professor, Counselor Education

Karin Jordan, PhD
Assistant Dean of Graduate Development
and Engagement

Annika Peter, PhD
Associate Professor, Physics and Astronomy

1 – 2:45 p.m. | Awards Luncheon
Performance Hall | 1st Floor

Host – Libby Bauman
Chair, Hayes Research Forum
Vice President, Council of Graduate Students
Master’s Student, Education and Human Ecology

Speakers –
President Michael V. Drake, MD
Stephen Post
President, Council of Graduate Students
Master’s Student, John Glenn College
of Public Affairs and College of Pharmacy
and Administration

Morley Stone, PhD
Vice President for Research

Alicia Bertone, DVM, PhD
Vice Provost for Graduate Studies
and Dean of the Graduate School
ENGIE - Axium Endowed Dean’s Chair
Professor, Veterinary Clinical Sciences

DaVonti’ Haynes, MSW
Treasurer, Council of Graduate Students
Doctoral Candidate, Agricultural
Communication, Education, & Leadership

Award Presenters –
Alicia Bertone, DVM, PhD
Vice Provost for Graduate Studies
and Dean of the Graduate School
ENGIE - Axium Endowed Dean’s Chair
Professor, Veterinary Clinical Sciences

DaVonti’ Haynes, MSW
Treasurer, Council of Graduate Students
Doctoral Candidate, Agricultural
Communication, Education, & Leadership
Dr. Hayes was born on September 8, 1941, in Baltimore, Maryland. After receiving a Baccalaureate degree from the University of Rochester and Master's and Doctorate degrees from Johns Hopkins University, he joined the faculty at Rice University. Since July 1991 he served as Vice President for Research at The Ohio State University and Professor of Chemistry. He was an exemplar of the highest ideals for excellence in teaching, scholarship, and service who continued to teach chemistry and maintained an active, productive research program during his tenure as Vice President for Research.

Dr. Hayes was an internationally distinguished scientist whose particular research interest was in molecular electronic structure theory, molecular scattering theory, and parallel computing methods. Dr. Hayes created the Undergraduate Research Forum, strongly supported the Graduate Research Forum and spearheaded the launching of the Science and Technology Campus (formerly Research Park). He served in several prominent administrative roles for the National Science Foundation and the Office of Management and Budget. In addition, he served on several advisory committees and chaired the National Science Foundation Task Force on the Future of the Supercomputer Centers Program.

Vice President Hayes served in leadership roles in scientific societies, including extensive work for the American Chemical Society, the American Physical Society, and as a Fellow of the American Association for the Advancement of Science. Dr. Hayes also gave exemplary service to several local and statewide advisory boards, including the Ohio Science and Technology Council, The Edward Orton Jr. Ceramic Foundation, and the Ohio Aerospace Institute.

Dr. Hayes was highly respected for the principled, intelligent, thoughtful and positive manner in which he approached all matters before him; he was frequently sought out for his wise counsel; and he extended grace, kindness, and appreciation to all who interacted with him. Dr. Hayes set a high standard in both his professional and personal life that will continue to be a model for us all. He continues to be sadly missed by this university community and by those who were privileged to know him as a colleague and a friend.

(Photo Courtesy of University Photo Archives)
(Biography Courtesy of OSU Board of Trustees Resolution No. 98-134)
The Council of Graduate Students (CGS) is the student government for graduate students at The Ohio State University. Since 1955, the Council has represented the views of graduate students to university, local, state, and federal officials. CGS also provides a forum for graduate students to discuss and act upon issues. CGS promotes and provides academic, administrative, and social programs for graduate students and the greater university community. The organization is comprised of an officer core, executive committee, 10 senators, and over 100 delegates who collectively represent in excess of 10,000 graduate students in the 200 programs across the University. The purpose of the Council of Graduate Students is to effectively advocate and program to ensure the OSU graduate experience is the best it can be.

**External Advocacy**
To ensure that the graduate views are reaching the appropriate audiences, CGS appoints graduate students to serve on over 100 university-wide and senate committees. CGS also elects 10 graduate students to the University Senate, the official representative body for faculty, administration, and students, chaired by the University President.

**In addition to the Hayes Forum, CGS has a number of other programs that it oversees:**

**The Ray Travel Award**
The Edward J. Ray Travel Award for Scholarship and Service (Ray Award) encourages and enables graduate students across the University to participate in professional conferences, both in their respective fields and in the broader academic community, by reimbursing or partially reimbursing the expenses incurred by graduate students during travel to conferences and meetings to present original research.

**The Career Development Grant**
The Career Development Grant program encourages graduate students to prepare for placement into their chosen field. Students will submit their Career Development Grant Application to the Council of Graduate Students (CGS) for an opportunity to receive an award to defray costs associated with the development of their careers.

**The Global Gateway Research Abroad Grant**
The Global Gateway Graduate Student Research Abroad Grant encourages and promotes the professional and academic development of graduate researchers at The Ohio State University by providing financial support that allows students to undertake research abroad. Students also assist the university to pursue its strategic international goals by creating and bolstering relations with universities and other institutions across the world.
Visualizing Ancient Culture Through the Design of Intermodal Mixed Reality Experiences

*Presented by: Joseph Chambers, Design*

Can Biophilic Design Components Impact the Mood and Behavior of Dementia Patients?

*Presented by: Susan Booher, Design*

Swing Heil: Embodied Resistance to the Third Reich

*Presented by: Emily Kaniuka, Music Theory*

Fractal Patterns and Wellbeing: An Application of Biophilia in the Interior Space

*Presented by: Noor Danielle Murteza, Design Research & Development*

Glorifying Whiteness: How Chorus Lines in the Early Twentieth Century Contributed to the Hegemony of the White Racial Body

*Presented by: Adrienne Oehlers, Theatre*

Embodied by Design: The Presence of Creativity, Art-Making and Self in Virtual Reality

*Presented by: Jessica Pissini, Arts Administration, Education, & Policy*

Beyond Accessibility

*Presented by: Shannon Thacker, Art Education*

Artful Cultural Diplomacy Design: Culture, Power, and History

*Presented by: Biyun Zhu, Arts Administration, Education, & Policy*

Making Resilient International Arts Festivals: A Preliminary Investigation of China Shanghai International Arts Festival

*Presented by: Yifan Xu, Arts Administration, Education, & Policy*
Fatty Acid Binding Proteins Facilitate Reprogramming of Müller Glia into Progenitor Cells by Modulating Cannabinoid Signaling in the Retina.
*Presented by: Warren Campbell, Neuroscience Graduate Program*

Individual Effects of Bone Marrow Derived Cells in the Attenuation of Tissue Engineered Vascular Graft Occlusion
*Presented by: Yu-Chun Chang, Biomedical Sciences*

Bone Sialoprotein is Critical for Bone Healing
*Presented by: Michael Chavez, Biosciences*

Persistent ESBL E. Coli Strain
*Presented by: Siying Fu, Food Science and Technology*

Transforming Industrial Waste to a Source of Natural Antimicrobials Followed by Semi-Preparative Purification to Facilitate Industrial Applications
*Presented by: Walaa Hussein, Food Science and Technology*

Metabolic Flux Through the Lipogenic Host Enzyme Fatty Acid Synthase (Fasn) Generates DE Novo Fatty Acids for Myristoylation of HIV-1 Gag
*Presented by: Krithika Karthigeyan, Microbiology*

Identifying and Characterizing Inhibitors of the FraB Deglycase, a Promising Drug Target to Treat Salmonellosis
*Presented by: Jamison Law, Biochemistry Program*

Chronic Demyelination and Remyelination of Spared Axons After Spinal Cord Injury
*Presented by: Nicki Pukos, Neuroscience Graduate Program*

Network Analysis Provides New Insights Into Hormone Signal Integration During the Plant Immune Response
*Presented by: Alexander Turo, Translational Plant Sciences*

Circadian Regulation of the Mapk-Erk Signaling Pathway
*Presented by: Hyojung Yoon, Molecular, Cellular and Developmental Biology*
Internalized Abuse: Examining Followers’ Subjective Judgment of Leaders’ Abusive Supervision Behaviors
Presented by: Woohee Choi, Business Administration

The Good-Cop and Bad-Cop Negotiation Approach: A Role Differentiation Strategy on Integrative Consequences in Intergroup Negotiation Setting
Presented by: Seunghoo Chung, Business Administration

Risk and Rivalry Promotions
Presented by: John Costello, Marketing

Can the Government Help Firms Develop Innovation Capabilities?
Presented by: Joon Woo Hong, Business Administration

Do Horizontal Mergers Affect Rivals’ Cash Holdings?
Presented by: Dongxu Li, Finance

When Collecting Personal Data from Consumers Backfires
Presented by: Jianna Jin, Marketing
ORAL PRESENTATIONS: Education & Human Ecology
Barbie Tootle Room, 3rd Floor

Recruiting and Hiring Black Graduate Women as Faculty
Presented by: e alexander, Higher Education and Student Affairs

“So, You Want to Be a Teacher?” How Hopeful Teachers Navigate Challenges
Presented by: Meghan Breedlove, Counselor Education & Supervision

Pathways Through Early Care Predict Differences in Child Outcomes in the First Two Years of Schooling
Presented by: Nathan Helsabeck, Quantitative Research, Evaluation, and Measurement

Children’s Classroom Social Experiences During Preschool and First-Grade Transition: The Role of Teacher Awareness of Classroom Social Dynamics
Presented by: Saesbyul Kim, Educational Psychology

Social Scaffolding and Social-Moral Reasoning: A Comparative Case Study
Presented by: Elizabeth Kraatz, Educational Psychology

Black Girls and School Discipline in Ohio: Using Their Voices to Imagine Solutions
Presented by: Alexis Little, Educational Policy

Bridging the Gap between Social Reasoning and Action: Impacts of Collaborative Small-Group Discussion
Presented by: Manisha Naresh Nagpal, Educational Psychology

Emergent Bilingual Children Letter Name Knowledge
Presented by: Somin Park, Reading and Literacy in Early and Middle Childhood

Community Partner-Led Service-Learning: Potential for Equity through Critical Service-Learning
Presented by: Nathaniel Stewart, Educational Policy

Positive Social Dynamic Predictors of Student Learning
Presented by: Susan Talley, Quantitative Research, Evaluation, and Measurement

The ACA Medicaid Expansion and Low-income Homeownership
Presented by: Guangyi Wang, Consumer Science
A New Design of Microbolometer for Millimeter Wave Imaging System Based on Phase-change Material
Presented by: Shangyi Chen, Mechanical Engineering

An in Vitro Screening Platform to Identify Novel Effectors of Extracellular Matrix Alignment
Presented by: Caitlin Jones, Biomedical Engineering

Brain Tissue and Functional Recovery in Ischemic Stroke Model via Nanotechnology Based Cell Reprogramming
Presented by: Luke Lemmerman, Biomedical Engineering

A Plug-and-Play Method with Learned Denoiser for Accelerated Cardiac MRI
Presented by: Sizhuo Liu, Biomedical Engineering

Retrieval and Analysis of Mobility-Related Information from Free Text Clinical Reports
Presented by: Denis Newman-Griffis, Computer Science and Engineering

Engineering Extreme Electric Fields for Ultra-Wide Bandgap Semiconductor Electronics
Presented by: Towhidur Razzak, Electrical and Computer Engineering

Surface-Modified Ultra-Pure Earthworm Mega-Hemoglobin as a Transfusion Product
Presented by: Chintan Savla, Chemical and Biomolecular Engineering

Non-Viral Reprogramming of Degenerate Intervertebral Disc Cells Induces Trans-Differentiation to a Healthy Phenotype
Presented by: Nina Shirley Tang, Biomedical Engineering

Efficiently Integrating Solar Photovoltaic Generation in Utility Distribution Networks
Presented by: Sree Subiksha Madhavan Reshikeshan, Electrical and Computer Engineering

Understanding the Biological Basis of Alternating Electric Field Therapy on Breast Cancer Metastasis
Presented by: Meihui Zhang, Biomedical Engineering
Assessing the Impact of Negative Versus Positive Textural Drivers on Eating Choices  
**Presented by: Amy Andes, Food Science and Technology**

Recombinant Attenuated Salmonella Vaccines to Control Campylobacter in Poultry  
**Presented by: Gary Closs Jr., Food Science and Technology**

Timing of Luteolysis and Conceptus Expulsion After Induced Embryonic Demise During the Second Month of Gestation in Beef Cows  
**Presented by: Benjamin Duran, Animal Science**

Building a Grain Bin Dust Simulator: A Model to Measure Workers’ Exposure of Organic Dust  
**Presented by: Yang Geng, Food, Agriculture, and Biological Engineering**

Metabolic Responses of Austrian Pine to an Opportunistic Pathogen Under Drought Stress  
**Presented by: Soumya K Ghosh, Plant Pathology**

Elucidating a Potential Detection Mechanism for High-Viscosity Solutions in the Oral Cavity Using Tissue Isolation and Anatomical Characterization  
**Presented by: Brittany Miles, Food Science and Technology**

Huge Impacts from Tiny Organisms: Harnessing Novel Strains of Beneficial Bacteria to Improve Drought Stress Tolerance of Greenhouse Plants  
**Presented by: Nathan Nordstedt, Horticulture and Crop Science**

Agroecological Change and Participatory Cover Crop Research in Maya Milpas of Southern Belize  
**Presented by: Henry Peller, Environment and Natural Resources**

Improvement of Natural Food Colorant Performance with Efficient Pyranoanthocyanin Formation from Sambucus Nigra Anthocyanins Using Caffeic Acid and Heat  
**Presented by: Nicole Straathof, Food Science and Technology**

Safety of shell Eggs as Affected by Different Heating Rates and Survival of Salmonella Enteritidis During Mild Egg Pasteurization  
**Presented by: Yumin Xu, Food Science and Technology**
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<td>Dennin Ellis, English</td>
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<td>In the Search of Piety: Why Muslim Iranian Angelinos Convert to Christianity?</td>
<td>Eshan Estiri, Near Eastern Languages and Cultures</td>
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<td>&quot;These Unfortunate People&quot;: The International Response to Jewish Refugees in Shanghai, 1945-1949</td>
<td>Sara Halpern, History</td>
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<td>Building Empathy in Video Games through Digital Mestizaje in Hellblade: Senua's Sacrifice</td>
<td>Carlos Kelly, English</td>
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<td>The Problem of Venue: The Controversy on Liu Haisu's Exhibition at the Daxin Gallery</td>
<td>Yiwen Liu, History of Art</td>
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<td>A Reduction in Suffering: Applying the Principles of Medical Humanities to Address the Needs of ELL Students in Freshman Composition</td>
<td>Rolando Rubalcava, English</td>
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<td>Look into the Two &quot;Eyes&quot; in Chinese</td>
<td>Jinwei Ye, East Asian Languages and Literatures</td>
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<td>Visualizing the Temporal Space of Narratives</td>
<td>Sean A. Yeager, English</td>
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<td>Reduplication in Sajiao: To Be Twice as Cute in the Chinese Culture of Cuteness</td>
<td>Wei Zhou, Chinese Linguistics</td>
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Efficient Theoretical Quantum Chemistry Method For Insight Into The Excited States Of Molecules And Materials

*Presented by: Samragni Banerjee, Chemistry*

Watching Electrons Move: Understanding Solar Energy Conversion Using X-Ray Spectroscopy

*Presented by: Somnath Biswas, Chemistry*

Basal Channel Evolution in West Antarctic Ice Shelves

*Presented by: Allison Chartrand, Earth Sciences*

Inferring the Order in which Mutations Arise during Cancer Progression

*Presented by: Yuan Gao, Biostatistics*

Amplitude-Phase Separation of Trace-Variogram for Spatial Functional Data Analysis

*Presented by: Xiaohan Guo, Biostatistics*

CHPNCL for Linker Histone

*Presented by: Ziyong Hong, Chemistry*

Bayesian Model for Estimation and Registration of Noisy, Sparse and Fragmented Functional Data

*Presented by: James Matuk, Statistics*

Polarization Dependent Relativistic Transparency: Particle-In-Cell Simulations and Experiment

*Presented by: Preston Pozderac, Physics*

C-H Functionalization: A Holy Grail Transformation Enabled by Radical Relays

*Presented by: Allen Prusinowski, Chemistry*

Expediting Drug Discovery via Late Stage C-H Functionalization

*Presented by: Leah Stateman, Chemistry*
Characterization of clonal evolution in microsatellite unstable metastatic cancers through multi-regional tumor sequencing  
**Presented by: Russell Bonneville, Biomedical Sciences Graduate Program**

Prenatal Stress Leads to Intrauterine Inflammation, Serotonergic Dysfunction, and Long-Term Behavioral Deficits Through Microbe- and CCL2-Dependent Mechanisms  
**Presented by: Helen Chen, Neuroscience Graduate Program**

Targeted Ultrasound  
**Presented by: Meghan Flannery, Anatomy**

Development of Next-Generation Live Attenuated Influenza Vaccines with Elite Immunostimulatory Capabilities  
**Presented by: Amir Ghorbani, Comparative and Veterinary Medicine**

Notch Signaling Regulates Human Innate Lymphoid Cell Plasticity and Differentiation  
**Presented by: Ansel Nalin, Biomedical Sciences Graduate Program**

Impaired Glial IL-10 / TGFβ Signaling Underlies the Exaggerated Sickness Response in Aged Mice  
**Presented by: Shane O’Neil, Neuroscience Graduate Program**

Adipose PTEN Regulates Adult  
**Presented by: Nicholas Queen, Biomedical Sciences Graduate Program**

Pre-Operative Activity Level and Outcomes after Ventral Hernia Repair: Making the Case for Prehabilitation in Ventral Hernia Patients  
**Presented by: Savannah Renshaw, Public Health**

Mammary Tumors and Chemotherapy Independently Disrupt Circadian Rhythms in Mice  
**Presented by: Kyle Sullivan, Neuroscience Graduate Program**

Tonsil Scrapings for Porcine Reproductive and Respiratory Syndrome Virus Detection  
**Presented by: Heather Walker, Public Health**
Persistence in STEM: An Analysis of Achievement Goals and the Effects of Gender on Class Belonging
*Presented by: Elise Allen, Educational Studies*

nL1R1 Necessary for Stress
*Presented by: Damon DiSabato, Neuroscience Graduate Program*

Climate Change Litig. Networks
*Presented by: Federico Holm, Environment and Natural Resources*

The Politics of Protection and Care: A Gendered Analysis of Everyday Violence in Fragile Societies
*Presented by: Kara Hooser, Political Science*

Adolescents’ Relational Closeness to Maternal Figure, Religious Beliefs, and Depressive Symptoms: Examinations Across Race and Ethnicity
*Presented by: Karis Inboden, Human Development and Family Science*

Twitter Watch: Leveraging Social Media to Monitor and Predict Collective-Efficacy of Neighborhoods
*Presented by: Moniba Keymanesh, Computer Science and Engineering*

"Stop Playing the ‘What-If’ Game": Gender in Satisfaction with Sterilization
*Presented by: Alexandra Kissling, Sociology*

Implementation Science in Cancer Control: Replicating the Effects of Dissemination and Examining Its Effects on Providers’ Usage of an Empirically Supported Treatment
*Presented by: Stephen Lo, Psychology*

The Role of Tree and Building Shades in Neighborhood Thermal Control: A Three-Dimensional Digital City Approach
*Presented by: Yujin Park, City and Regional Planning*

Self-Regulation in Young Deaf Children
*Presented by: Natalie Safdar, Audiology*
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<td>Do Plants Control Their Development by Integrating Signals Through Key Transcription Factors?</td>
<td>Quratulayn Ashraf, Molecular, Cellular and Developmental Biology</td>
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<td>Gender-Specific Effects of Tamoxifen on Neotissue Development in Murine Tissue Engineered Vascular Grafts</td>
<td>Kevin Blum, Biomedical Engineering</td>
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<td>Regulation of Oscillatory Genes During Vertebrate Segmentation</td>
<td>Kara Braunreiter, Molecular Genetics</td>
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<td>Chloroplast Cytochrome C Assembly Requires the Provision of Reducing Power Through Two Different Pathways</td>
<td>Ankita Das, Molecular Genetics</td>
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<td>KMT2D Impact on Metastasis Phenotypes in Squamous Cell Carcinoma</td>
<td>Cara Dauch, Applied Clinical and Preclinical Research</td>
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<td>BAT SVF for metabolism</td>
<td>Revati Dewal, Molecular, Cellular and Developmental Biology</td>
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<td>From Bitter to Better: Exploring Variation in Tomato Glycoalkaloids</td>
<td>Michael Dzakovich, Horticulture and Crop Science</td>
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<td>Oxygen Affinity and Size of HBOCs Can Be Engineered: Glutaraldehyde Polymerized Bovine Hemoglobin Red as a Blood Cell Substitute</td>
<td>Xiangming Gu, Chemical Engineering</td>
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<td>Hemoglobin Nanoparticles can be Synthesized by Ethanol Desolvation for use as a Red Blood Cell Substitute</td>
<td>Richard Hickey, Chemical Engineering</td>
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| 11  | A Survey Study of Prophylactic Rabies Vaccination Regulations for Companion Animals in Ohio  
*Presented by: Abigail Jokerst, Public Health* |                                                     |
| 12  | Paneth Cells Regulate Diet-Induced Obesity and Trafficking of Inflammatory Immune Cells Into Adipose Tissues  
*Presented by: Marisa Joldrichsen, Comparative and Veterinary Medicine* |                                                     |
| 13  | Developmental Roles of Pcdh1a in Neural Circuit Assembly  
*Presented by: Sarah Light, Neuroscience Graduate Program* |                                                     |
| 14  | Computational Analysis of MS- and NMR-determined Hydrogen-Deuterium Exchange Rates via de novo Structure Prediction  
*Presented by: Daniel Marzolf, Biophysics* |                                                     |
| 15  | Pumilio In Dicer1 Syndrome  
*Presented by: Swetha Rajasekaran, Molecular Genetics* |                                                     |
| 16  | Translating Data from Surface-Induced Dissociation Mass Spectrometry and Cryo-Electron Microscopy into Accurate Structures of Protein Complexes  
*Presented by: Justin Seffernick, Chemistry* |                                                     |
| 17  | In-Silico Electrophysiology of TMC1--An Inner-Ear Mechanotransduction Protein  
*Presented by: Sanket Walujkar, Chemical Physics* |                                                     |
| 18  | Ribotag  
*Presented by: Wenyuan Yin, Neuroscience Graduate Program* |                                                     |
| 19  | KIF11 at PC in Neurodevelopment  
*Presented by: Abigail Zalenski, Neuroscience Graduate Program* |                                                     |
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<th></th>
<th>Title</th>
<th>Presenter</th>
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<tr>
<td>1</td>
<td>Teachers are Key: Using the MSC Model to Implement Interventions</td>
<td>Caitlyn Chambers, School Psychology</td>
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<td>2</td>
<td>Stories of Mudanca (Change): Black Brazilian Women Activists and Preservice Teachers on Natural Afro Hair and (Re)Imagining Education on (Anti)Blackness&quot;</td>
<td>Marla Goins, Multicultural and Equity Studies in Education</td>
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<td>3</td>
<td>Investigating Teachers' Implementation of New Social and Emotional Learning Standards Through a Community of Practice</td>
<td>Kelsey Higginson, Kinesiology</td>
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<td>4</td>
<td>A Longitudinal Study on How Motivation Affects Students' Cognitive Engagement in Vocabulary Learning Online</td>
<td>Zilu Jiang, Learning Technologies</td>
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<td>5</td>
<td>The Impact of SNAP Benefit Changes on Consumption</td>
<td>Yiting Lan, Consumer Sciences</td>
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<td>Repositioning the Birthplace of Instructional Design: Ralph W. Tyler’s Systematic Method</td>
<td>Catherine O’Keefe, Educational Studies</td>
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<td>7</td>
<td>ICC Bias and Level 1 Sample Size</td>
<td>Joshua Peri, Quantitative Research Evaluation Measurement</td>
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<td>8</td>
<td>Self-Efficacy in Pediatric Physical Therapy Education: Considering Domain-Specific Experiential Learning</td>
<td>Kimberley Scott, Health and Rehabilitation Sciences</td>
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<td>9</td>
<td>Making Sense of Worldview Diversity at Public Universities: An Exploration of Student Encounters using Critical Sensemaking</td>
<td>Beth Ashley Staples, Educational Studies</td>
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<td>10</td>
<td>Nearpod VR Influence on Science Engagement and Content Retention among Elementary and Middle School Students</td>
<td>Joanne Vakil, STEM Education</td>
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<td>11</td>
<td>Grandmothers’ Endorsement of Coparenting and Maternal Gatekeeping Behaviors: The Moderating Role of Fathers’ Parenting Competence</td>
<td>Jingyi Wang, Developmental Psychology</td>
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<td>12</td>
<td>Bystander Intervention Disposition with Racial Slurs for College Students Living in Residential Halls: Considering Discussing Sociocultural Issues with Peers</td>
<td>Wu Xie, Higher Education and Student Affairs</td>
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POSTER PRESENTATIONS: FAES
Archie M. Griffin West Ballroom, 2nd Floor

1. I Do Not Think It Means What You Think It Means: Explorations of Soil Health Conceptualization
   Presented by: Margaret Beetstra, Environment and Natural Resources

2. Differentiation of Perceptual Responses And Characterization Of Desensitization To Capsaicin Across Various Oral Cavity Areas
   Presented by: Danica Berry, Food Science and Technology

3. Linking Genomics And Metabolomics For Nutrition-Driven Germplasm Improvement Of Apples
   Presented by: Emma Bilbrey, Horticulture and Crop Science

4. Influence Of Chlorine Concentration To The Effectiveness Of In-Place Cleaning Agents
   Presented by: Ryan Hardika, Food Science and Technology

5. Biobased Novolac Resin
   Presented by: Asmita Khanal, Food, Agricultural and Biological Engineering

6. Techno-Economic, Energy And Environmental Life Cycle Analyses Of Renewable Jet Fuel Production From Pennycress
   Presented by: Seyed Hashem Mousavi Avval, Food, Agricultural and Biological Engineering

7. U.S. Military Land and Endangered Species
   Presented by: Emily Rabung, Environment and Natural Resources

8. Soy soft Pretzels for Recovery
   Presented by: Abigail Sommer, Food Science and Technology
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<td>1</td>
<td>Using Progressive Muscle Relaxation to Improve Early Symptoms of Advanced Lung Cancer: A Static Group Comparison Design</td>
<td>Nicola Arrato, Psychology</td>
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<td>2</td>
<td>Current Practices in Acute Musculoskeletal Injury Care: A National Survey of Athletic Trainers</td>
<td>Tyler Beauregard, Health and Rehabilitation Sciences</td>
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<td>3</td>
<td>Characterizing Long-term Health Outcomes and Health Related Quality of Life among Families affected by Hemolytic Uremic Syndrome</td>
<td>Aaron Beczkiewicz, Food Science and Technology</td>
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<td>4</td>
<td>New Muscle</td>
<td>Dathe Benissan-Messan, Biomedical Sciences Graduate Program</td>
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<td>5</td>
<td>Rehabilitation Dose for Children with Cerebral Palsy</td>
<td>Rachel Bican, Health and Rehabilitation Sciences</td>
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<td>6</td>
<td>FLI1-Domain Contributions Go Beyond DNA-Binding to Drive Ewing Sarcoma Biology</td>
<td>Megann Boone, Biomedical Sciences Graduate Program</td>
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<td>7</td>
<td>Contribution of Snacks to Dietary Intake Stratified by Race/Ethnicity in the United States</td>
<td>Kristen Heitman, Health and Rehabilitation Sciences</td>
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<td>Tau Lesion Formation in Alzheimer’s Disease is Antagonized by DJ-1</td>
<td>Daniela Jimenez-Harrison, Neuroscience Graduate Program</td>
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<td>9</td>
<td>Does Neurocognitive Functioning Impact Degraded Sentence Recognition?</td>
<td>Jessica Lewis, Speech and Hearing Science</td>
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<td>10</td>
<td>Group 1 Innate Lymphoid Cell Dysregulation in Acute Myeloid Leukemia</td>
<td>Matthew Lordo, Biomedical Sciences Graduate Program</td>
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<td>11</td>
<td>Constraint Changes Movement Frequency Not Kinematics in Infants With and Without CP: Early Results</td>
<td>Presented by: Julia Mazzarella, Health and Rehabilitation Sciences</td>
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<td>12</td>
<td>Effects of Omega-3 Fatty Acids on Insulin Resistance in an Ovariectomized Mouse Model of Diet-Induced Obesity Treated with Chemotherapy</td>
<td>Presented by: Kate Ormiston, Nutrition</td>
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<td>14</td>
<td>Diet Quality and Mental Health-Related Quality of Life Among Female Breast Cancer Survivors</td>
<td>Presented by: Janell Pisegna, Health and Rehabilitation Sciences</td>
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<td>15</td>
<td>Nicotine-Free and Nicotine-Containing E-cigarettes Differentially Alter Microbial Colonization Dynamics</td>
<td>Presented by: Michelle Scott, Biosciences</td>
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<td>16</td>
<td>Assessing Pharmacist Workload in a Critical Care Satellite Pharmacy After a Bed Expansion</td>
<td>Presented by: Olga Vlashyn, Pharmaceutical Sciences</td>
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<tr>
<td>1</td>
<td>Marine Polysaccharides Influence Water Organization at Sea Spray Aerosol Proxy Films: Implications for Atmospheric Ice Nucleation</td>
<td>Kimberly Carter-Fenk, Chemistry</td>
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<td>Validation of Sequence for MRE</td>
<td>Megan Co, Biomedical Engineering</td>
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<td>Light-Fueled Dynamic Self-Assembly with Reversibly Isomerizing Tetrapeptide Nanofibers</td>
<td>Cassidy Creemer, Organic Chemistry</td>
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<td>Quantum Symmetries for Quantum Topological Spaces</td>
<td>Roberto Hernandez Palomares, Mathematics</td>
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<td>5</td>
<td>Harnessing Electricity to Enable Transformations of Carboxylic Acids</td>
<td>Heather Hintz, Chemistry</td>
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<td>6</td>
<td>Minimal High Pressure Based Continuous Method for Milk Pasteurization</td>
<td>Jerish Joyner Janahar, Food Science and Technology</td>
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<td>7</td>
<td>DNA-caged Polymer Nanocomposites for Erasable Fluorescence Imaging</td>
<td>Elizabeth Jergens, Chemical Engineering</td>
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<td>Ferumoxytol-Enhanced Accelerated 4D Flow MRI: Preliminary Analysis in a Pediatric Patient</td>
<td>Aaron Pruitt, Biomedical Engineering</td>
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<td>Competitive Binding Interactions for Phosphoric and Phosphonic Acids in Proxy Aged Aerosols</td>
<td>Michaela Rogers, Chemistry and Biochemistry</td>
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<td>10</td>
<td>Water Quality Impacts of Green Infrastructure on Nutrients, Sediment, and Metals: An Analysis of Watersheds in Clintonville, Ohio</td>
<td>Joseph Smith, Food, Agricultural &amp; Biological Engineering</td>
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11 Biomechanical Differences between Normal Walking and Tactical Walking: Guiding Exoskeleton Development to Enhance Physical Capabilities of Tactical Athletes

Presented by: Maria Talarico, Biomedical Engineering

12 Searching for the most energetic neutrinos with the Askaryan Radio Array (ARA) experiment

Presented by: Jorge Torres, Physics

13 A Scalable, Electrically Driven, Carbon-Carbon Bond Forming Reaction

Presented by: Blaise Truesdell, Chemistry

14 Indirect Magnetic Force Microscopy of Superparamagnetic Nanoparticles

Presented by: Kevin Walsh, Biophysics
POSTER PRESENTATIONS: Social & Behavioral Sciences – Great Hall Meeting Room, 1st Floor

1. Skeletal Morphological Adaptation of the Modern Human Ankle and Forefoot: A Study of Plasticity in Response to Cultural Pressures  
   Presented by: Malorie Albee, Anthropology

2. UNLABEL ME: Effects of Breed Labeling on Perception and Adoptability of Shelter Dogs  
   Presented by: Yolanda Bradshaw, Animal Sciences

3. When Too Much is Still Not Enough: The Role of Resting HRV & Problem-Focused Coping on Depression Among Black Americans  
   Presented by: Briana Brownlow, Psychology

4. The Impact of Controlled Context on Taint Detection of Chocolate Milk Measured With Implicit and Explicit Methods  
   Presented by: Maria Cotter, Food Science and Technology

5. Predictors of Parenting Self-Efficacy in New Fathers  
   Presented by: Reed Donithen, Psychology

6. Presidential Grandiose Narcissism and International Conflict Appetite  
   Presented by: John Harden, Political Science

7. Framing Realities  
   Presented by: Brianna Johnson, Dance

8. Cheering for Your Team Is Not Booing the Other Side: In-party Love and Out-party Hate  
   Presented by: Jon Kingzette, Political Science

9. Service Attentiveness and Customer Enjoyment in Fashion Retailing  
   Presented by: Keyin Li, Consumer Sciences

10. The Psychology of Psychological Waste: The Dynamic Effects of Sunk Costs on Consumption  
    Presented by: Tyler MacDonald, Psychology

11. Living in Dust and Smog: Identity, Inequality, and Pollutant Exposure during England’s Industrial Revolution  
    Presented by: Sara McGuire, Anthropology
POSTER PRESENTATIONS: Social & Behavioral Sciences – Great Hall Meeting Room, 1st Floor

12 Can we Overcome a Poor Early Response to Treatment? An Analysis of the Role of Early Improvements in Cognitive Behavioral Skills.  
Presented by: Samuel Murphy, Clinical Psychology

13 Shifting Philanthropies? Tracing Grantmaking for Community and Economic Development in American Cities  
Presented by: Jeeson Oh, City and Regional Planning

14 The Salpingopharyngeus, Revisited  
Presented by: Karen Perta, Speech and Hearing Science

15 Locked Out and Locked Up? Investigating the Relationship Between Eviction and Incarceration  
Presented by: Stephanie Pierce, Public Policy and Management

16 Anxiety Among Marginalized  
Presented by: Andrew Podob, Political Science

17 What’s Mine Is Yours: The Role of Psychological Ownership on Attitudes Toward Collecting Family Health History  
Presented by: Judy Watts, Communication

18 Decision-Making Power in the Relationship Between Loneliness and Social Isolation and Health Outcomes Among Aging People in China  
Presented by: Xi Yu, Consumer Science

19 Is It Better to Know or Not to Know? Getting Notified by A Mishandled Airline Baggage Timely  
Presented by: Zenan Zhou, Business Administration
2019 ORAL PRESENTATION WINNERS

THE ARTS
1st Place: Lindsey Reymore; Music Theory
2nd Place: Nicholas Shea; Music Theory
3rd Place: Hilary Katz; Art Education

BIOLOGICAL SCIENCES
1st Place: Greta Volpedo; Microbiology
2nd Place: Michael Chavez; Oral Biology
3rd Place: Justin Middleton, Molecular, Cellular, and Developmental Biology
Honorable Mention: Michael Ryan-Simkins, Biochemistry
Honorable Mention: Swetha Rajasekaran, Molecular Genetics

BUSINESS
1st Place: Aviva Philipp-Muller; Social Psychology

EDUCATION & HUMAN ECOLOGY
1st Place: Elizabeth Kraatz; Educational Psychology
2nd Place: Julia Yan; Human Development and Family Science
3rd Place: Guangyi Wang; Consumer Science

ENGINEERING
1st Place: Huiming Dong; Biomedical Engineering
2nd Place: Keyton Clayson; Biophysics
3rd Place: Nina Shirley Tang; Biomedical Engineering

FOOD, AGRICULTURE & ENVIRONMENTAL SCIENCES
1st Place: Daniel Gillespie; Horticulture and Crop Science
2nd Place: Preston Manwill; Medicinal Chemistry and Pharmacognosy
3rd Place: Cecilia Chagas de Freitas; Plant Pathology
Honorable Mention: Mackenzie Hannum; Food Science and Technology

HEALTH SCIENCES
1st Place: Adam Kenney; Biomedical Sciences
2nd Place: Ansel Nalin; Biomedical Sciences
3rd Place: Christina Knippler; Biomedical Sciences
Honorable Mention: Julie Young; Health and Rehabilitation Sciences

HUMANITIES
1st Place: Zeyuan Wu; Chinese Literature
2nd Place: Hector Iglesias Pascual; Spanish
3rd Place: Ehsan Estiri; Near Eastern Languages and Cultures

MATH & PHYSICAL SCIENCES
1st Place: Madison Tuttle; Chemistry
2nd Place: Curt Wong; Chemistry
3rd Place: Andrew Franjesmovic; Math & Physical Sciences

SOCIAL AND BEHAVIORAL SCIENCES
1st Place: Joseph Siev; Social Psychology
2nd Place: Annelise Madison; Clinical Psychology
3rd Place: Austin Hubner; Communication
2019 POSTER PRESENTATION WINNERS

ARTS & HUMANITIES
1st Place: Younaga Koh; Arts Administration, Education, and Policy
Honorable Mention: Laura Neese; Dance

BIOLOGICAL SCIENCES
1st Place: Nicki Pukos; Neuroscience
2nd Place: Benjamin Noble; Neuroscience
3rd Place: Gary Closs Jr.; Food Science & Technology

ENGINEERING
1st Place: Deven Baser; Chemical Engineering
2nd Place: Deeksha Jain; Chemical Engineering
3rd Place: Noah Einstein; Mechanical Engineering
Honorable Mention: James Kim; Chemical and Biomolecular Engineering
Honorable Mention: Kayane Dingilian; Chemical Engineering

HEALTH SCIENCES
1st Place: Walaa Hussein; Food Science and Technology
2nd Place: Kimberly Scott; Health and Rehabilitation Sciences
3rd Place: Rachel Bican; Health and Rehabilitation Sciences
Honorable Mention: Brittney Keller-Hamilton; Epidemiology

MATH AND PHYSICAL SCIENCES
1st Place: Michael Scudder; Chemistry and Biochemistry
2nd Place: Andrew Chen; Chemistry and Biochemistry

SOCIAL SCIENCES
1st Place: Manisha Nagpal; Educational Psychology
2nd Place: Rebecca Frazer; Communication
3rd Place: Andrew Perry; Educational Psychology
OHIO UNION MAPS

LOWER LEVEL

HIGH STREET

MAUDINE COW ROOM
CREATIVE ARTS ROOM
MILESTONES ROOM
DANCE ROOM 1
DANCE ROOM 2
INSTRUCTIONAL KITCHEN
CAP RECEPTION
OHIO UNION MAPS

FIRST FLOOR

HIGH STREET

OSU PUBLIC SAFETY
UNIPRINT
THE OHIO STATE UNIVERSITY BOOKSTORE
ALONSO FAMILY ROOM
MULTICULTURAL CENTER
POTTER PLAZA
US BANK
GREAT HALL MEETING ROOM
INFORMATION CENTER
THE OHIO STATE UNIVERSITY ALUMNI ASSOCIATION
PERFORMANCE HALL
US BANK CONFERENCE THEATER
WOODY'S TAVERN
GREAT HALL
UNION MARKET
BEN AND ARLENE ROTH LOUNGE
WEST PLAZA
SLOOPY'S DINER

ESPRESS-OH

33
THIRD FLOOR

HIGH STREET

SIGMA PHI EPSILON LOUNGE

UAFYE VISITS & EVENTS SUITE

INTERFAITH PRAYER AND REFLECTION ROOM

STANLEY D. GOTTSEGEN STUDY LOUNGE

OFFICE OF THE SENIOR VICE PRESIDENT FOR STUDENT LIFE

OFF-CAMPUS AND COMMUTER STUDENT SERVICES

BUCKID

BRUTUS BUCKEYE ROOM

CARTOON ROOM

ROUND MEETING ROOM

ROSA M. AILABOUNI ROOM

KEITH B. KEY CENTER FOR STUDENT LEADERSHIP AND SERVICE

BARBIE TOOTLE ROOM

HAYS CAPE ROOM

TANYA RUTNER HARTMAN ROOM

SUZANNE M. SCHARER ROOM
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