



THE OHIO STATE UNIVERSITY

# EDWARD F. HAYES GRADUATE RESEARCH FORUM

FRIDAY, FEBRUARY 21, 2014 • OHIO UNION



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## WELCOMING REMARKS

Dear Guests,

Welcome to the 28th 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. Hayes fosters academic and professional development for our attendees while showcasing the work of nearly 150 Ohio State graduate students. 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 OSU graduate students by judging over 360 abstracts and the nearly 150 presentations that will be presented today. Three years ago, the Hayes Forum celebrated its 25th anniversary. It was a marked milestone in not only the event but in the continued excellence of our graduate students, faculty, and staff. Now in its 28th year, this is the premier event for graduate student research at Ohio State, organized by students for students that 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: Last year's Hayes Forum Chair, Allison Sturm for her experience and insights, the Hayes Forum Vice Chair, Alfred Yates for his technological and logistical expertise, Kerry Hodak for her knowledge and advice, and Katie Krajny, Rachel Connors, and Megan Znidarsic for their administrative assistance. I would also like to thank our panelists for sharing the benefits of their experiences with graduate students. Finally, a special thank you to Dean Patrick Osmer and Assistant Dean Kathleen Wallace from the Graduate School for their support of graduate students, Vice President Caroline Whitacre from the Office of Research for supporting graduate student research, and Vice President Javaune Adams-Gaston from the Office of Student Life for her support of the Council 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.

Sincerely,

Jamie Crowsley  
Vice President, Council of Graduate Students  
Chair, Hayes Graduate Research Forum

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## WELCOMING REMARKS

Dear Colleagues,

On behalf of the Graduate School, I would like to welcome you to the 28th annual Edward F. Hayes Graduate Research Forum.

I am often asked what distinguishes graduate education. The three hallmarks that I always mention are creativity, solving problems, and making new knowledge. These qualities are in evidence throughout today's Hayes Forum, which is one of the highlights of the year for graduate students, for Ohio State, and for me as dean of the Graduate School.

The Hayes Forum showcases graduate student research from the full span of graduate programs at Ohio State. One of the unique aspects about this research meeting is the way it compels researchers to present their findings in ways that are meaningful to an interested but non-specialist audience. This is an extremely useful skill for any graduate student to practice. It applies to any career path and is critical for engaging the public and other stakeholders in the work we do.

Take advantage of this opportunity to talk with your colleagues from across the University. You may be surprised by the unexpected and fruitful connections and collaborations that may result.

Sincerely,

Patrick S. Osmer  
Vice Provost for Graduate Studies and Dean of the Graduate School

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## WELCOMING REMARKS

Dear Guests,

Welcome to the Hayes Graduate Research Forum. This event represents the 28th year for a very successful collaboration between the Council of Graduate Students, the Graduate School and the Office of Research. We come together to celebrate your research accomplishments, provide a forum in which to present the findings of your research to the broader research community, and facilitate research collaboration between areas across campus.

It is always inspiring for me to attend the Hayes Graduate Research Forum and to hear the excellent oral presentations and to see the outstanding posters. The presentations just get better and better each year! I know how hard it is for the judges to pick winners from such a talented group of individuals. Congratulations to all of the presenters as you have worked exceptionally hard to make your research presentations well organized and understandable by a broad audience.

It is a very exciting time to be engaged in research on the Ohio State campus. The University is embarking on a bold faculty hiring initiative which you will begin to see in your time at OSU. This initiative, termed the Discovery Themes, is about solving big global problems in the areas of Energy and the Environment, Health and Wellness, and Food Production and Security. More than \$400 million will be invested in bringing new faculty and their programs to Ohio State over the next 10 years. Each year, a theme will be announced which will serve as the focus for proposals for faculty hires. You hopefully are aware that Data Analytics is the theme for this first year's focus in the Discovery Theme hiring program. So what does this mean for graduate students? As these new faculty come to campus over the next and subsequent years, there will be new opportunities for graduate student training. There will not only be new mentors and new collaborative opportunities for those graduate students directly working with the new faculty, but also more opportunities for all graduate students to learn about the field of data analytics, which touches nearly all areas of graduate study. The key feature of the Discovery Themes is its interdisciplinary and multidisciplinary focus, which means that graduate students in all disciplines will be positively impacted by this broad University initiative.

I wish you the very best in the presentation of your research as part of the Hayes Graduate Research Forum.

Sincerely,

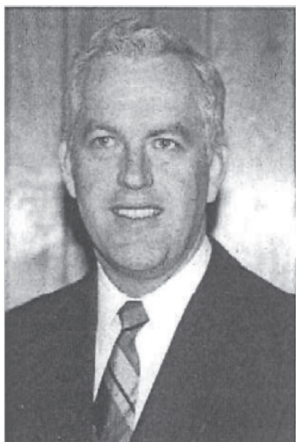
Caroline C. Whitacre  
Vice President, Office of Research

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## REMEMBERING DR. EDWARD F. HAYES

THIS ANNUAL FORUM IS IN HONOR OF DR. EDWARD F. HAYES (1941-1998)



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.

Dr 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)

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## HAYES GRADUATE RESEARCH FORUM COMMITTEE

The entire Edward F. Hayes Graduate Research Forum Committee is organized by the Council of Graduate Students. This Forum is organized by students, for students. Financial support comes from the Graduate School, the Office of Research, the Hayes Endowment, and the Council of Graduate Students.

Jamie Crowsley, Chair

Alfred Yates, Vice Chair

Sayoni Bose

Jing Chen

Shuai Dong

Kristin Garvin

Kristyn Gumper

Christian Harding

Kathryn Halleck

Lauren Himmel

Carla Jagger

Pooja Joshi

Candace Joswick

Molly Krygowski

Kristy McCray

Megan Muccigrosso

Diana Norden

Hussam Salhi

Estevan Santana

Janet Schroeder

Kaitlin Snider

Allison Sturm

Anupama Sukhu

Ashley Weber

Tingting Zhang



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## HAYES FORUM JUDGES

On behalf of the CGS, thank you to the tremendously busy Ohio State faculty who gave their time to judge abstracts and presentations for Hayes this year:

Joni Acuff  
Yazan Alsmadi  
Anika Anthony  
Kimberly Arcolee  
Richard Arnold  
Gergana Atanassova  
David Barker  
Sujit Basu  
Vincent Billock  
Joshua Blakeslee  
Dennis Bong  
Alexandra Borstad  
Elisebeth Boyer  
William Brantley  
John Brion  
Sergey Brodsky  
Kristine Browning  
Craig Burd  
Marcello Canova  
Lisa Christian  
Graham Cochran  
Bill Coombs  
Briggs Cormier  
Gregory Davis  
Johanna Devaney  
Jo Dowell  
Jennifer Eisenhauer  
Kelly Farquhason  
Xin Feng  
Danielle Fosler-Lussier  
Michael Freitas  
Andrew Gaudet  
Jonathan Godbout  
John Gray  
Howard Gu  
Christopher Hadad  
Patrice Hamel  
Tae-Im Han  
John Harper  
Curt Hartsfield  
Andrew Hartwick  
Curtis Hagtvedt  
Kristina Haworth

James Hopper  
Lawrence Inks  
Ludmila Isurin  
Brian Janssen  
Joel Johnson  
Reed Johnson  
Lisa Jordan  
Roy Joshua  
Eloise Kaizar  
Claire Kamp Dush  
Savita Khanna  
KyoungTae Kim  
Hwewon Kim  
Seung Hyun Kim  
Samantha King  
Marianna Klochko  
Sebastian Kurtek  
Jessie Labov  
Tzu-Jung Lin  
En-Ju Lin  
Jialin Lin  
Jessica Logan  
Robert Lount  
Stuart Ludsin  
Sandra Macpherson  
Thomas Magliery  
Helen Malone  
Paul Martini  
Brooke Mcmichael  
Brian Mcspadden Gardener  
David Neal Miller  
Carla Miller  
Scott Mullins  
Sunny Munn  
Manoj Nair  
Alex Oliszewski  
Susan Olivo-Marston  
Michael Parke  
Linda Parsons  
Shayne Piasta  
Keeley Pratt  
Jessica Prinz  
Raghunath Raja Chandrasekar

James Rathman  
Ranajoy Ray-Chaudhuri  
Amy Rettig  
Laurie Rinehart-Thompson  
Brian Roe  
Mark Rudoff  
Mark Ruegsegger  
George Rush  
Scott Scheer  
Sarah Schoppe-Sullivan  
Matt Sheridan  
Soheil Soghrati  
Latonia Stiner-Jones  
Shiarna Stokes  
Jenna Tague  
Sherine Tambyraja  
Margaret Teaford  
Donald Terndrup  
David Tovey  
Asuman Turkmen  
Rao Unnava  
Tatiana Vashchilko  
Murugesan Velayutham  
Giuseppe Vercellotti  
Yael Vodovotz  
Jeffrey Walline  
Elizabeth Weiser  
Noah Weisleder  
Jay Wellman  
Dale White  
Juliet White-Smith  
Bryan Whitson  
Traci Wilgus  
Jen Wong  
David Wood  
Jack Yalowich  
Donald Yau  
Ryan Yoder  
Ulises Zevallos-Aguilar  
Ouliana Ziouzenkova  
Li Zuo

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## HAYES FORUM SCHEDULE

- 7:15 – 7:50 a.m.**      **Registration**  
Great Hall Lobby, Ground Floor  
Breakfast and informal conversations
- 7:50 – 8:20 a.m.**      **Welcome Addresses and Opening Session**  
U.S. Bank Conference Theater, Ground Floor  
Jamie Crowsley, Vice President of the Council of Graduate Students  
Caroline Whitacre, Vice President of the Office of Research  
Patrick S. Osmer, Dean of the Graduate School
- 8:30 – 10:30 a.m.**      **First Round of Oral Presentations** – Guests are welcome  
Arts – Ohio Staters, Inc. Founders Room  
Biological Sciences – Lower Level Meeting Room  
Business – Multicultural Center Meeting Room  
Education & Human Ecology – Rosa M. Ailabouni Room  
Engineering – Barbie Tootle Room  
Food, Agricultural & Environmental Sciences – Maudine Cow Room  
Humanities – Ohio Staters, Inc. Traditions Room  
Mathematics & Physical Sciences – Tanya R. Rutner Room  
Professional Biological Sciences – Suzanne M. Scharer Room  
Social & Behavioral Sciences – Student Alumni Council Room
- 9:00 a.m. – Noon**      **Poster Session Opens** – Poster Judging  
Great Hall Meeting Room, Ground Floor  
Arts, Humanities & Social Sciences  
Biological Sciences,  
Engineering, Mathematics & Physical Sciences
- 10:30 – 10:40 a.m.**      **Break**
- 10:40 a.m. – Noon**      **Second Round of Oral Presentations** – Guests are welcome  
Same locations as First Round
- Noon – 12:10 p.m.**      **Break**  
Please Make your way to the U.S. Bank Conference Theater on the ground floor for the Career Panel Discussion
- Noon – 12:30 p.m.**      **Judges' Deliberations** – Deliberations are closed to the public
- 12:10 – 12:50 p.m.**      **Career Panel Discussion**  
US Bank Conference Theater, Ground Floor
- 1:00 – 2:45 p.m.**      **Awards Luncheon**  
Performance Hall, Ground Floor

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## PRESENTATION LOCATIONS BY SUBJECT AREA

### ORAL PRESENTATIONS

#### **THE ARTS**

Ohio Staters, Inc. Founders Room  
2nd Floor

#### **BIOLOGICAL SCIENCES**

Lower Level Meeting Room,  
Lower Level

#### **BUSINESS**

Multicultural Center Meeting Room,  
Ground Floor

#### **EDUCATION AND HUMAN ECOLOGY**

Rosa M. Ailabouni Room,  
3rd Floor

#### **ENGINEERING**

Barbie Tootle Room,  
3rd Floor

#### **FOOD, AGRICULTURAL, AND ENVIRONMENTAL SCIENCES**

Maudine Cow Room,  
Lower Level

#### **HUMANITIES**

Ohio Staters, Inc. Traditions Room,  
2nd Floor

#### **MATHEMATICS AND PHYSICAL SCIENCES**

Tanya R. Rutner Room,  
3rd Floor

#### **PROFESSIONAL BIOLOGICAL SCIENCES**

Suzanne M. Scharer Room,  
3rd Floor

#### **SOCIAL AND BEHAVIORAL SCIENCES**

Student-Alumni Council Room,  
2nd Floor

### POSTER PRESENTATIONS

#### **ARTS, HUMANITIES, SOCIAL SCIENCES**

Great Hall Meeting Room,  
Ground Floor

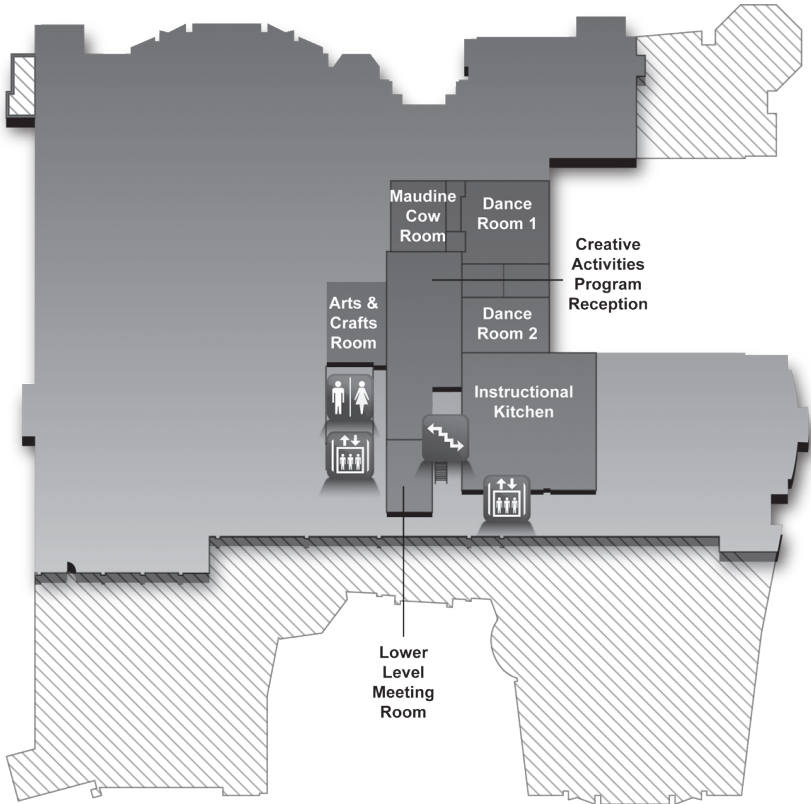
#### **BIOLOGICAL SCIENCES**

Great Hall Meeting Room,  
Ground Floor

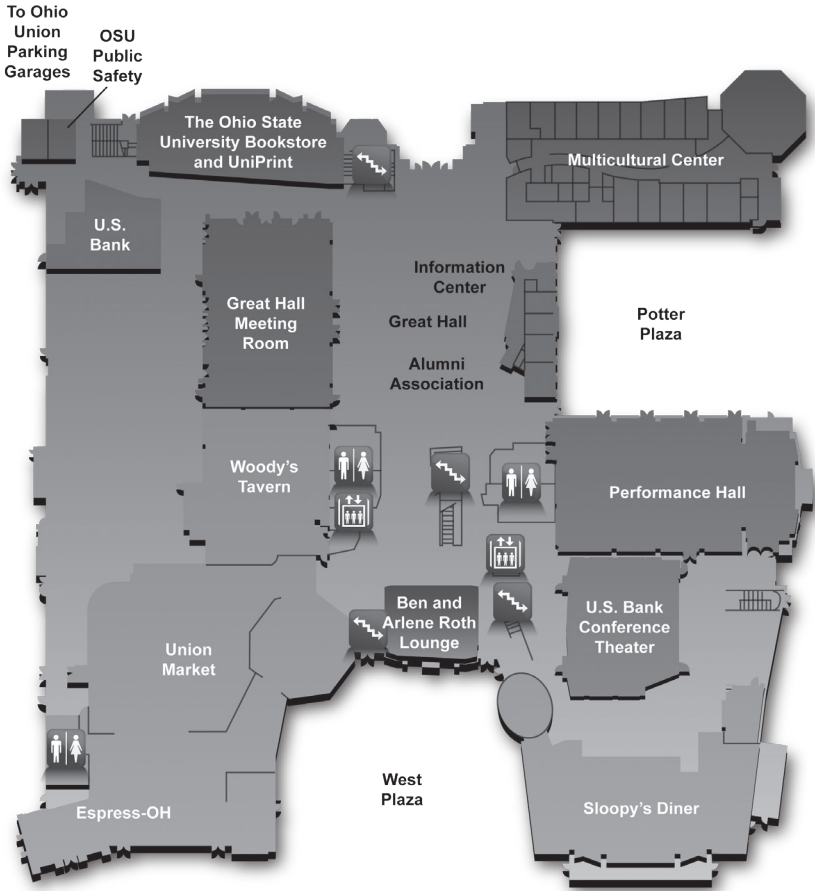
#### **ENGINEERING, MATHEMATICS, PHYSICAL SCIENCES**

Great Hall Meeting Room,  
Ground Floor

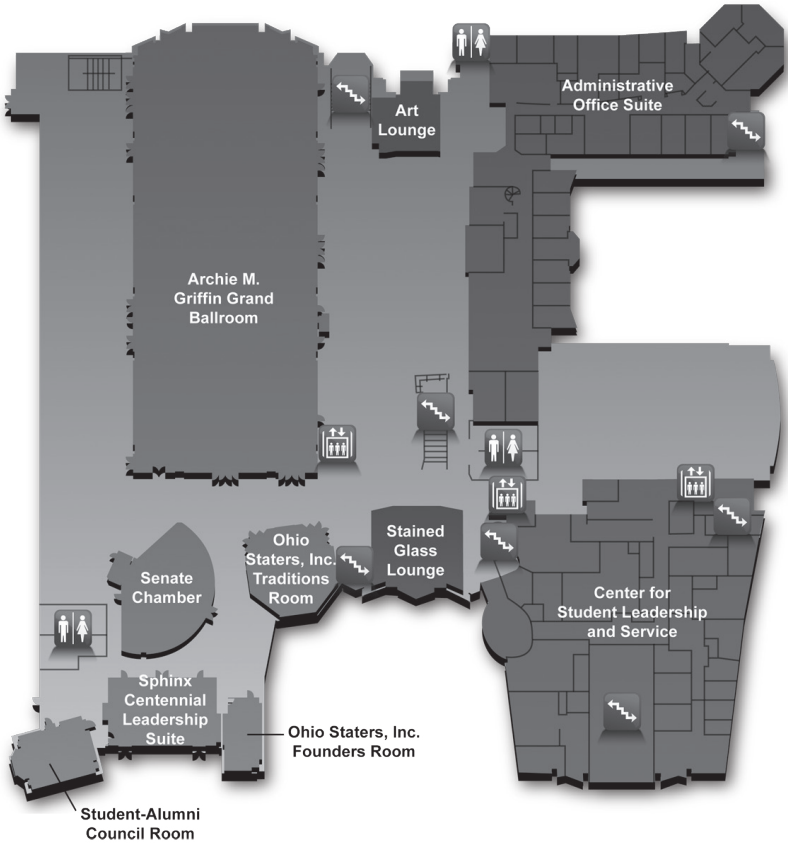
# OHIO UNION LOWER LEVEL



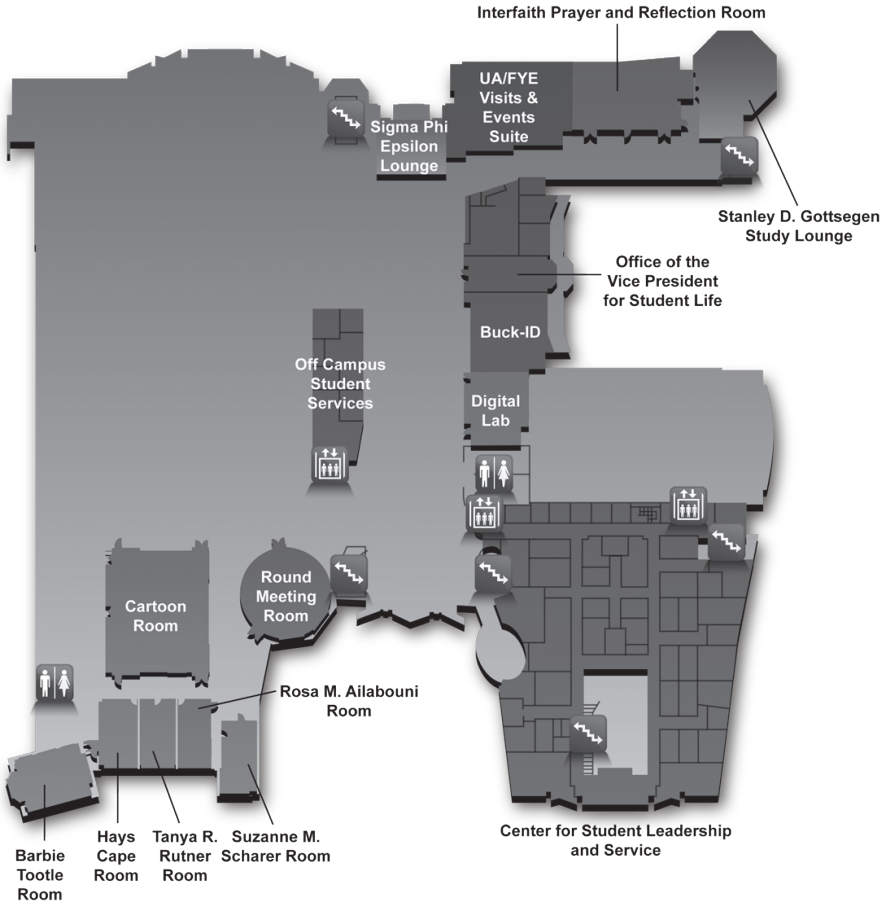
# OHIO UNION GROUND FLOOR



# OHIO UNION SECOND FLOOR



# OHIO UNION THIRD FLOOR



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## THE ARTS

Ohio Staters, Inc. Founders Room, 2nd Floor

- 8:30 a.m.**                    **Orlay Alonso** - Music  
*The Illuminated Scores Abstract: The Architectural Design of Musical Form*
- 8:50 a.m.**                    **Elizabeth Beggrow** - Teaching & Learning  
*Context In Learning and Assessment: Do Biological Anthropology Students Have An Edge Over Biology Students in Reasoning About Human Evolution?*
- 9:10 a.m.**                    **Hui-Chun Hsiao** - Food Science and Techonology  
*Improving Anthocyanin Color and Stability During Storage by using Catechins as Copigment*
- 9:30 a.m.**                    **Mao Huang** - Horticulture and Crop Science  
*Correlations of seed traits with tofu texture in 48 soybean cultivars and breeding lines*
- 9:50 a.m.**                    **Anna Newman** - Molecular, Cellular, and Developmental Biology  
*Investigating the role of RanGAP in Arabidopsis development: should we solely be minding the GAP, or is the story more complex?*
- 10:10 a.m.**                  **Sujata Ponappa** - Human Development and Family Science  
*Differentiation in the Family System, Sibling warmth and Depressive symptoms among Young Adults*
- 10:30 a.m.**                  **Break**
- 10:40 a.m.**                  **Geoffrey Wilson** - Theatre History, Literature, and Criticism  
*War Bugs: Street Art as Performed Discourse in Bogotá*
- 11:00 a.m.**                  **Yanfei Yin** - History of Art  
*Survival and Revival of China's Traditionalist Painting*
- 11:20 a.m.**                  **Tingting Zhang** - Hospitality Management  
*Health Promotion by Hospitality Firms and its Influence on Employees Attitudes and Behaviors: An Exploratory Study*
- 11:40 a.m.**                  **End of Presentations:** Judging Deliberations Commence



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# BIOLOGICAL SCIENCES

Lower Level Meeting Room, Lower Level

- 8:30 a.m.**                      **Zachary VanGundy** - Comparative and Veterinary Medicine  
*The Generation of mature tolerogenic myeloid cells with retinoic acid*
- 8:50 a.m.**                      **SungWon Song** - Molecular Cellular Developmental Biology  
*ALS astrocytes adopt natural killer properties to induce motor neuron death*
- 9:10 a.m.**                      **Scott Prajzner** - Entomology  
*Impacts of an adjuvant and an herbicide on the colony success and foraging behaviors of the native bumble bee *Bombus impatiens*.*
- 9:30 a.m.**                      **Christie McCracken** - Biomedical Sciences  
*Minimal In Vitro Toxicity of Food-Relevant Nanoparticles in an Intestinal Epithelial Model*
- 9:50 a.m.**                      **Cindy Lee** - Molecular, Cellular, & Developmental Biology  
*MYCBP: a novel genetic explanation for the loss of DNA repair in breast cancer*
- 10:10 a.m.**                      **Apama Lakshmanan** - Molecular Cellular and Developmental Biology  
*Radioiodine accumulation is significantly enhanced in thyroid cells by the plant-derived flavonoid, Apigenin in combination with functional inhibition of the Protein Kinase Akt*
- 10:30 a.m.**                      **Break**
- 10:40 a.m.**                      **Zoe Hesp** - Neuroscience Graduate Studies Program  
*Oligodendrogenesis and remyelination occur chronically after spinal cord injury in mice and rats*
- 11:00 a.m.**                      **Julia Harris** - Biomedical Sciences  
*Interactions of the BLM helicase with topoisomerase IIa are regulated by BLM phosphorylation*
- 11:20 a.m.**                      **Timothy Frey** - Plant Pathology  
*Changes in amino acid homeostasis negatively affect development of a plant parasitic nematode.*
- 11:40 a.m.**                      **Reshma Davidson** - Molecular, Cellular and Developmental Biology  
*Art1: Arrestin in cytokinesis*
- 12:00 p.m.**                      **End of Presentations:** Judging Deliberations Commence

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## BUSINESS

### Multicultural Center Meeting Room, Ground Floor

- 8:30 a.m.**                      **Anastasia Bailey** - Management & Human Resources  
*The Impact of Prior Expatriate Experience on Cross-Border Knowledge Sharing and Performance*
- 8:50 a.m.**                      **Jonathan Jensen** - Sport Management  
*Second Screen, Second Place? Investigating the Implications of Second Screen Use on Brand Awareness*
- 9:10 a.m.**                      **Hyojin Lee** - Fisher Collage of Business  
*Monotonous Forest and Colorful Trees: The Effects of Color vs. Black-and-White on Information Processing*
- 9:30 a.m.**                      **Jamie Levine Daniel** - Public Policy and Management  
*Mission-Based Objectives, Market-Based Funding: The Effects of Nonprofit Enterprise on Service Delivery*
- 9:50 a.m.**                      **Chris Summers** - Business Administration  
*Persuasion Mindset: The Effect of Persuasion on the Persuader*
- 10:10 a.m.**                      **End of Presentations:** Judging Deliberations Commence

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## EDUCATION & HUMAN ECOLOGY

Rosa M. Ailabouni Room, 3rd Floor

- 8:30 a.m.**                      **Ruilan Zhao** - Foreign, Second and Multilingual Language Education  
*Exploring Reading and Writing Connections in Synthesis Writing of Second Language Learners*
- 8:50 a.m.**                      **Qiong Wu** - Human Development and Family Science  
*A Naturalistic Observation of Parental Socialization of Child Negative Emotions in Relation to Maternal Depression*
- 9:10 a.m.**                      **Megan Sanders** - Educational Psychology and Philosophy  
*A Comparison of Four Factor Analytical Methods Used with Ordinal Data*
- 9:30 a.m.**                      **Narmada Paul** - Educational Psychology  
*Reactivegenerative self-efficacy in learners: A concern for educators in the Internet age?*
- 9:50 a.m.**                      **Travis Mountain** - Family Resource Management  
*How Impactful are Financial Disclosure Forms?*
- 10:10 a.m.**                     **Leah Morgan** - Educational Studies  
*The Effects of a Student Success Course on College Students' Academic Outcomes*
- 10:30 a.m.**                     **Break**
- 10:40 a.m.**                     **Carolyn Kaplan** - Foreign and Second Language Education  
*Foreign Language Teachers' Cognitions and Practices Related to Student Assessment*
- 11:00 a.m.**                     **Emma Hooper** - Human Development and Family Science  
*Maternal Emotion and Depressive Symptoms in Relation to Child Outcomes: A Person-Centered Approach*
- 11:20 a.m.**                     **Melinda Hill** - Kinesiology  
*Activity Trait to Predict Strenuous Resistance Exercise*
- 11:40 a.m.**                     **Jessica Bennett** - Special Education  
*Effects of Computer-Assisted, Culturally Relevant, Repeated Reading Intervention on Oral Reading Fluency of Students At-Risk for Reading Failure*
- 12:00 p.m.**                     **End of Presentations:** Judging Deliberations Commence

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# ENGINEERING

Barbie Tootle Room, 3rd Floor

- 8:30 a.m.**                    **Mark Calhoun** - Biomedical Engineering  
*Development of a 3D in vitro Model of the Glioblastoma Microenvironment*
- 8:50 a.m.**                    **Elena Caruthers** - Mechanical Engineering  
*Individual Muscle Forces during a Sit to Stand Transfer*
- 9:10 a.m.**                    **Benjamin Goldberg** - Mechanical and Aerospace Engineering  
*Measurement of Rapid Electric Field Development with Sub-Nanosecond Precision*
- 9:30 a.m.**                    **Peng He** - Industrial and Systems Engineering  
*Precision Glass Molding of Freeform Lens Using Machined Silicon Mold*
- 9:50 a.m.**                    **Likai Li** - Industrial and Systems Engineering  
*Investigation of Manufacturing of Affordable Freeform Polymer Lenses for Vision Applications*
- 10:10 a.m.**                    **Ria Mazumder** - Electrical and Computer Engineering  
*Waveguide Magnetic Resonance Elastography of the Heart*
- 10:30 a.m.**                    **Break**
- 10:40 a.m.**                    **Tyler Nelson** - Biomedical Engineering  
*Development of Chemotactic and High-Throughput Drug Screening Assays for Personalized Treatments of Metastatic Cancers*
- 11:00 a.m.**                    **Mark Scott** - Electrical and Computer Engineering  
*Efficient, Economical Solar Power Conversion via Wide Bandgap based Power Electronics*
- 11:20 a.m.**                    **Xu Zhang** - Biomedical Engineering  
*A Microdevice for Studying Intercellular Electromechanical Transduction in Adult Cardiac Myocytes*
- 12:00 p.m.**                    **End of Presentations:** Judging Deliberations Commence

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# FOOD, AGRICULTURAL, AND ENVIRONMENTAL SCIENCES

Maudine Cow Room, Lower Level

- 8:30 a.m.**                    **Feng Zhang** - Environmental Science  
*The effects of zebra mussels on cyanobacterial communities and microcystin level in United States lakes*
- 8:50 a.m.**                    **Zongsu Wei** - Food Science and Nutrition  
*Evaluating Acoustic Technology for In-Situ Remediation of Contaminated Sediment: A Laboratory and Computational Study*
- 9:10 a.m.**                    **Matthew Teegarden** - Educational Psychology and Philosophy  
*Determination of Biologically Relevant Vitamin D Metabolites in a Mouse Model of Non Melanoma Skin Cancer*
- 9:30 a.m.**                    **Pranay Ranjan** - PhD Environment & Natural Resources  
*Assessment of Sustainability literacy and engagement in pro-environmental behaviors among domestic and international students at The Ohio State University*
- 9:50 a.m.**                    **Dominic Petrella** - Turfgrass Science  
*Variation in Anthocyanin Production among Accessions and Cultivars of *Poa trivialis* L.*
- 10:10 a.m.**                    **Jessica Pemppek** - Animal Sciences  
*Housing System May Affect Performance and Behavior of Jersey Heifer Calves*
- 10:30 a.m.**                    **Break**
- 10:40 a.m.**                    **Fabiola Gutierrez Orozco** - Interdisciplinary Nutrition  
*Dietary *a*-Mangostin, an Abundant Xanthone Compound in Mangosteen Fruit, Exacerbates Colitis and Adversely Alters the Gut Microbiota*
- 11:00 a.m.**                    **John Grayson** - Environment and Natural Resources  
*Saving the Friday fish fry: Improving yellow perch culture through live food enrichment*
- 11:20 a.m.**                    **Jessica Cooperstone** - Food Science and Technology  
*Increased lycopene bioavailability from a unique, cis-lycopene containing tangerine-type tomato*
- 11:40 a.m.**                    **Morgan Cichon** - Food Science and Technology  
*Isomerization and Oxidative Metabolism of Tomato Lycopene in a <sup>13</sup>C Human Tracer Study*
- 12:00 p.m.**                    **End of Presentations:** Judging Deliberations Commence

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# HUMANITIES

Ohio Staters, Inc. Traditions Room, 2nd Floor

- 8:30 a.m.**                      **Jennifer Barajas** - Hispanic Linguistics  
*A Sociophonetic Approach to Vowel Raising:  
Social Networks in Rural Michoacán, Mexico*
- 8:50 a.m.**                      **David Bond** - Near Eastern Languages and Cultures  
*Mission impossible? "Seeing sympathetically" in colonial  
Tunisia 1937-1950*
- 9:10 a.m.**                      **Matthew Gillespie** - Psychology  
*Joyce's Hippocampus: Association, Neuroplasticity, and  
the Biological Memory of Ulysses*
- 9:30 a.m.**                      **Delano Lopez** - History  
*What Price Postmodernism? A Case Study in the Funding  
of Intellectual Movements*
- 9:50 a.m.**                      **Andrew Skabelund** - History  
*The Grain of Sand that Moved the Sea: Africans, EurAfricans,  
France, and the Formation of Franco-Habitant Identity in the  
Senegambia (1700-1865)*
- 10:10 a.m.**                      **Yu-Chen Tai** - Women's, Gender and Sexuality Studies  
*The Porous and Permeable Body as a (W)holistic Feminist  
Ontology: Theorizing the Body in Gloria Anzaldúa's Work*
- 10:30 a.m.**                      **Break**
- 10:40 a.m.**                      **Blake Wilder** - English  
*Segregated Worlds: Race, Reading, and the Shaping of Reality*
- 11:00 a.m.**                      **Adrienne Winans** - History  
*The Invisibility of Race Mixed-race Chinese Americans  
during the Exclusion Era*
- 11:20 a.m.**                      **Marion Wolfe** - English: Rhetoric, Composition, and Literacy  
*A Woman's Place in the World: Literacy and Gender Education  
in Women's Foreign Missionary Societies*
- 11:40 a.m.**                      **Qiong Yang** - Chinese literature  
*Old Rivals in a New Age: Science in Chinese Fiction  
and Films, 1960s-1990s*
- 12:00 p.m.**                      **End of Presentations:** Judging Deliberations Commence

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## MATHEMATICS & PHYSICAL SCIENCES

Tanya R. Rutner Room, 3rd Floor

- 8:30 a.m.**                      **Meng Zhang** - Biophysics  
*Dynamic determination of the functional state in photolyase*
- 8:50 a.m.**                      **Melissa Wrzesien** - Earth Sciences  
*Validation of Snow Cover Fraction for Regional Climate Simulations in the Sierra Nevada*
- 9:10 a.m.**                      **Alycia Palmer** - Inorganic Chemistry  
*Dirhodium Complexes as Potential Photo-chemotherapy Drugs*
- 9:30 a.m.**                      **Rachel Mauk** - Atmospheric Sciences  
*Prediction of Intensity Changes Subsequent to Concentric Eyewall Events*
- 9:50 a.m.**                      **Jeremy Lucy** - Condensed Matter Physics  
*Strain-dependent, Extraordinary Magnetocrystalline Anisotropy in Sr<sub>2</sub>CrReO<sub>6</sub> Epitaxial Films*
- 10:10 a.m.**                      **Biao Huang** - Physics  
*Large Spin Magnetic Condensate*
- 10:30 a.m.**                      **Break**
- 10:40 a.m.**                      **Samantha Brown-Xu** - Chemistry  
*Investigating Mo<sub>2</sub> Paddlewheel Complexes as Photosensitizers*
- 11:00 a.m.**                      **Archana Anandakrishnan** - Physics  
*Physics at the High Energy Colliders*
- 11:20 a.m.**                      **Bryan Albani** - Chemistry  
*Photoinduced ligand exchange in ruthenium(II) complexes as potential photochemotherapeutic agents*
- 11:40 a.m.**                      **End of Presentations:** Judging Deliberations Commence

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# PROFESSIONAL BIOLOGICAL SCIENCES

Suzanne M. Scharer Room, 3rd Floor

- 8:30 a.m.**                      **Elizabeth Barrie** - Biomedical Sciences  
*Genetic Variants in Dopamine Beta Hydroxylase Decrease Gene Expression and Serve as Biomarkers for Protection from Cardiovascular Disease*
- 8:50 a.m.**                      **Heather Carey** - Biomedical Sciences  
*PU.1, MITF and EOMES Control the Transcription Factor Regulatory Network Governing Osteoclast Differentiation*
- 9:10 a.m.**                      **Ashley Fenn** - Neuroscience  
*Methylene Blue Infusion for Treatment of Traumatic Brain Injury-associated Neuroinflammation and Functional Deficits*
- 9:30 a.m.**                      **Ashley Frakes** - Biomedical Sciences  
*Microglia induce motor neuron death via the classical NF- $\kappa$ B pathway in amyotrophic lateral sclerosis*
- 9:50 a.m.**                      **Madelyn Gerber** - Biomedical Sciences  
*Uncovering Colorectal Cancer Susceptibility Genes Using Mouse and Human Models*
- 10:10 a.m.**                     **Shibi Likhite** - Molecular, Cellular & Developmental Biology  
*Therapeutic AAV9-mediated SOD1 downregulation extends survival in mouse models of Amyotrophic Lateral Sclerosis*
- 10:30 a.m.**                     **Break**
- 10:40 a.m.**                     **Rajeswaran Mani** - Comparative and Veterinary Medicine  
*Tumor Antigen ROR1 Targeted Delivery of FTY720 Derivative OSU-2S Prolongs Survival In ROR1 Engineered Mouse Model of Chronic Lymphocytic Leukemia*
- 11:00 a.m.**                     **Nima Milani-Nejad** - Biomedical Sciences  
*Regulation of cross-bridge cycling rate in health and heart failure: studies from animal models and humans using a novel approach*
- 11:20 a.m.**                     **Mary Severin** - Biomedical Sciences  
*The Effect of microRNAs on Regulatory T Cells in Multiple Sclerosis*
- 11:40 a.m.**                     **Mia Tazi** - Biomedical Sciences  
*Effect of the MiR-17~92a Cluster On The Autophagy Response To Burkholderia cenocepacia In Cystic Fibrosis*
- 12:00 p.m.**                     **End of Presentations:** Judging Deliberations Commence



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## SOCIAL & BEHAVIORAL SCIENCES

Student Alumni Council Room, 2nd Floor

- 8:30 a.m.**                      **Jill Yavorsky** - Social and Behavioral Sciences  
*"Doing Fear": The Influence of Hetero-Femininity on (Trans) Women's Fears of Victimization*
- 8:50 a.m.**                      **Dimitry Mezhvinsky** - Economics  
*Boycotting and Buycotting: Third Party Punishment and Reward in Groups*
- 9:10 a.m.**                      **Adam Kolatorowicz** - Anthropology  
*Basiscranial Angle as an Indicator of Ancestry in Modern Humans: A Novel Method for Identifying Unknown Skeletal Remains in Death Investigations*
- 9:30 a.m.**                      **Dixie Hu** - Psychology  
*A Meta-analysis of Sex Differences in Heart Rate Variability*
- 9:50 a.m.**                      **James Goodenberger** - Agricultural, Environmental, and Development Economics  
*Evading Invasives: How Water-Milfoil Impacts New Lakefront Development*
- 10:10 a.m.**                     **Morgan Ellithorpe** - Communication  
*Die, foul creature! How the supernatural genre affects attitudes toward outgroups*
- 10:30 a.m.**                     **Break**
- 10:40 a.m.**                     **Geoffrey Durso** - Psychology  
*Over-the-Counter Relief from Pains and Pleasures Alike: Acetaminophen Attenuates Evaluation Extremity toward Both Negative and Positive Stimuli*
- 11:00 a.m.**                     **Kelly Dillon** - Communication  
*Distraction of cyber-bystanders in cyber-bullying contexts*
- 11:20 a.m.**                     **Phokeng Dailey** - Communication  
*Communication, Somali culture and decision-making about the human papillomavirus (HPV) Vaccine*
- 11:40 a.m.**                     **Jennifer Belding** - Social Psychology  
*Using high-level construal and perceptions of changeability to promote self-change over self-protection motives in response to negative feedback*
- 12:00 p.m.**                     **End of Presentations:** Judging Deliberations Commence

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# ARTS, HUMANITIES, AND SOCIAL SCIENCES POSTER DIVISION

Great Hall Meeting Room, Ground Floor

POSTER	PRESENTER & POSTER TITLE
1	<b>Amanda Baker</b> - Educational Psychology Using Values for College to Predict Student Achievement and Expectancies for Success
2	<b>Jennifer Bauman</b> - Nursing Analysis of Psychosocial Influences on Glycemic Control Among Adults with T2DM and Depression
3	<b>Laura Berger</b> - Human Nutrition Validation of a 10-Item Fruit and Vegetable Behavior Questionnaire in Low-Income 9-11 year-old Children, a Pilot Study
4	<b>Jing Chen</b> - Educational Psychology Observing Children's Engagement in Small-group Discussions as a Function of Individual- and Group-level Centrality Status
5	<b>Maria DiFranco</b> - Art The Female Experience of Cancer Seen Through Art, Deconstructing the "Fight Against Cancer" Metaphor
6	<b>Kimberly Frier</b> - Nursing Association of Qualitative Content Codes for Decision-making and Psychosocial Distress in Predicting Diabetes Related Distress among Adults with T2DM and Depressive Symptoms
7	<b>Brandon Gillie</b> - Psychology Individual Differences in Resting Heart Rate Variability Moderate Thought Suppression Success
8	<b>Devin Grammon</b> - Hispanic Linguistics When grammar meets politics: Uses of stigmatized language on a political talk show
9	<b>Jennifer Harmon</b> - Human Sciences Obesity Bias in Undergraduate Personal Service Majors
10	<b>Seulki Ku</b> - Human Development & Family Science Preschool Children's Lying: Effects of Gender, Temperament, and Parenting
11	<b>Leroy Long III</b> - Education How Feelings of Connectedness Affect Student Involvement in Courses that Use Technology
12	<b>Amy Pratt</b> - Speech and Hearing Science Parent-Implemented Intervention for Spanish-speaking Preschoolers with Language Impairment
13	<b>Victoria Schenker</b> - Developmental Psychology Household Chaos and Reading and Mathematics Skills: A Longitudinal Study
14	<b>Tricia Shalka</b> - Higher Education & Student Affairs Examining Leadership Development Among International Undergraduate Students in the United States
15	<b>Xuan Zhang</b> - Electrical Engineering A Gallium Nitride Device based 90 W AC/DC Power Adapter for Portable Electronics

# BIOLOGICAL SCIENCES

Great Hall Meeting Room, Ground Floor

- | POSTER | PRESENTER & POSTER TITLE  |
|--------|---|
| 1      | <b>Colleen Shockling Dent</b> - Veterinary Medicine<br>Prevalence of Zoonotic Ascarid Ova ( <i>Toxocara canis</i> , <i>Toxocara cati</i> , and <i>Baylisascaris procyonis</i> ) in Columbus City Parks              |
| 2      | <b>Hussam Salhi</b> - Biomedical Sciences<br>Phosphorylation of cardiac Troponin I at Tyrosine 26 decreases thin filament calcium sensitivity   |
| 3      | <b>Sara Sabihi</b> - Psychology-Behavioral Neuroscience<br>Oxytocin in the medial prefrontal cortex of postpartum females modulates anxiety, maternal care, and maternal aggression                                 |
| 4      | <b>Jamie Richmond</b> - Neuroscience Graduate Studies Program<br>Deficient TLR4 signaling differentially influences intraspinal and peripheral mRNA expression of iron regulatory proteins after spinal cord injury |
| 5      | <b>Janani Ravi</b> - Molecular, Cellular & Developmental Biology<br>Anti-tumorigenic effects of the endocannabinoid system through downregulation of EGFR signaling in NSCLC  |
| 6      | <b>Jason Pitarresi</b> - Biochemistry<br>Ets-2 acts as a Novel Oncogene in Cancer Associated Fibroblasts and Promotes Pancreatic Tumor Initiation and Development   |
| 7      | <b>Michelle Pershing</b> - Psychology<br>Prenatal Kynurenic Acid Elevation Alters Cortical Development And Prefrontal Glutamate Release, Corresponding To Cognitive Inflexibility In Adults                         |
| 8      | <b>Daniel Morgan</b> - Biomedical Informatics<br>Genomic Algorithm Identifies Chinese Herbals as Potential treatment in Bladder Cancer  |
| 9      | <b>Daniel McKim</b> - Neuroscience<br>Inflammatory Cytokine Signaling Promotes Impaired Hippocampal Neurogenesis Following Prolonged Psychological Stress   |
| 10     | <b>Sarah Hopp</b> - Neuroscience<br>The role of calcium dysregulation in neuroinflammation- and age-associated memory deficits  |
| 11     | <b>Suman Govindaraju</b> - Biochemistry<br>HuR mRNA isoform expression in hypoxic kidney  |
| 12     | <b>Evan Goldstein</b> - Neuroscience<br>Novel Targets for TLR4-Mediated Oligodendrocyte Progenitor Cell Proliferation   |
| 13     | <b>Emily Durham</b> - Food, Agricultural, and Biological Engineering<br>Moderate Electric Field (MEF) Treatment Increases Enzymatic Hydrolysis of Cellulose Filter Paper  |
| 14     | <b>Grace Cooper</b> - Biochemistry<br>Could methylation prevent Alzheimer's disease?  |
| 15     | <b>Kyle Caution</b> - Integrated Biomedical Sciences<br>Regulation Of Actin Dynamics During <i>Legionella pneumophila</i> Infection: A Novel Bactericidal Function Of Naip5   |

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# ENGINEERING, MATHEMATICS & PHYSICAL SCIENCES

Great Hall Meeting Room, Ground Floor

POSTER	PRESENTER & POSTER TITLE
1	<b>Francisco Chaparro</b> - Engineering Suture Retention Strength Evaluation of Electrospun Tubular Scaffolds
2	<b>Luke DeBruin</b> - Mechanical and Aerospace Engineering Modeling & Optimal Control Design for Advanced Automotive Thermal Management Systems
3	<b>Qirui Fan</b> - Chemical and Biomolecular Engineering Photo-switchable quantum dots based on reversible FRET
4	<b>Matthew Gerber</b> - Mechanical Engineering Biomimetic Anode Designs to Improve Power Output in Continuous Flow Microbial Fuel Cells
5	<b>Arijit Ghosh</b> - Chemistry and Biochemistry Probing pH-triggered self-assembling peptide based tumor imaging agents in blood serum
6	<b>Sara Grieshop</b> - Materials Science and Engineering Comparison of the Corrosion Behavior of AA7075 and AA2099 Aluminum Alloys after Exposure to B117 Environment
7	<b>Bohyun Hwang</b> - Geodetic Science Water-Rock Interaction in the Coso Geothermal System
8	<b>Jibin Liu</b> - Environmental Engineering Heteroaggregation of Silver Nanoparticles with Clay Minerals in Aqueous System
9	<b>Birce Onal</b> - Biomedical Engineering BetaIV-spectrin controls sinoatrial node cell membrane excitability and cardiac pacemaking.
10	<b>Joshua Pritchard</b> - Mechanical Engineering Fabrication and Analysis of Thermally Invariant Smart Composites via Ultrasonic Additive Manufacturing
11	<b>Aruna Ravi</b> - Electrical & Computer Engineering Electromagnetic wave interaction with individual wavelength-scale particles in the IR range: Spectral challenges and novel techniques
12	<b>James Reinhardt</b> - Biomedical Engineering ECM Remodeling and Cell Migration are Emergent Behaviors in Agent-Based Models
13	<b>Aaron Short</b> - Biomedical Engineering Accessing Hyaluronic Acid Receptor Expression on Electrospun Fibers
14	<b>Ying-Chin Wang</b> - Agricultural Engineering Effect of various catholytes on performance of blood-based microbial fuel cells
15	<b>Kang Wei</b> - Biomedical Engineering An In-line Fluidic Pump Driven by Magnetic Stir Bars

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## CAREER PANEL



### LAUREN KLEINMAN

Lauren Kleinman, MA, MENR is an Outreach Specialist for the Healthier Hospitals Initiative (HHI), a free, three year initiative designed to accelerate the widespread use of proven sustainability practices throughout the health care sector for improved health of patients, staff, and the community. Prior to joining HHI, Lauren worked for The Ohio State University Wexner Medical Center as an Administrative Manager, incorporating her passion for health, wellness, and sustainability at every opportunity. While she worked at OSUWMC, she completed her dual Masters degrees in Environment and Natural Resources and Public Policy. Her Masters project compared energy model predictions with actual energy performance of three LEED buildings on campus, resulting in LEED building follow-up audits one year post-occupancy. In addition to the opportunities she sought at work and through school, she was a student leader in groups such as Net Impact and the Sustainability and Environmental Responsibility Committee (SERC) for the Council of Graduate Students. SERC joined student sustainability initiatives together to leverage their numbers for a larger impact, and published a student sustainability resolution that successfully encouraged OSU administration to define a sustainability plan for the university.

By combining her graduate degrees, work experience, and student leadership opportunities, Lauren was able to land her version of a “dream job.” She also writes grants for a local watershed advocacy nonprofit and is a board member at Green Columbus, a nonprofit that organizes local Earth Day activities and focuses on sustainability within the community.

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## CAREER PANEL



### CONNIE DEJONG, PhD

Dr. DeJong is an entrepreneur, arts administrator, community educator, international FairTrade retailer and researcher, and a non profit management specialist.

Her career spans numerous social justice and arts and culture projects, including reviving Columbus' Global Gallery from near failure in the early 2000s to now a premier FairTrade retail location with extensive educational and outreach programming. As Executive Director of Global Gallery, Dr. DeJong not only financially stabilized the organization, but broadened its scope and influence through an increased focus on education, programmatic special events planning, expansion to multiple locations, strong community collaboration, and investment in new international partnerships.

A longterm key project for Global Gallery that Dr. DeJong developed was the Bolivian Orphanage project, a fundraising and collaborative endeavor with Foundation Anyi that has worked to build a sustainable, multi-phase orphanage for children in need in Cochabamba, Bolivia. As Executive Director, Dr. DeJong has secured numerous grants for Global Gallery over the years, including funding from the National Endowment for the Arts, the Ohio Arts Council, and the Greater Columbus Arts Council, to name a few. She also worked as the Program Director for OSU Arts Scholars during this time, and led multiple study abroad trips throughout South America.

Locally, Dr. DeJong's many outreach efforts have resulted in vital community partnerships across the area, including acting as Retail Operations Manager for Celebrate Local at Easton Towne Centre, dedicated to growing and promoting Ohio based businesses, or as a founding member of Women Crafting Change, a collaborative effort to engage low income women with professional development via hand crafted trades. Numerous other collaborations have also been cultivated by Dr. DeJong, among them work with the Short North Alliance, many of the local arts and cultural festivals city and statewide, farmers markets, musicians, artists, and as a mentor for many future arts administrators, artists, students, and likeminded social entrepreneurs.

Dr. DeJong's expertise in nonprofit management and FairTrade issues led her to start her own social enterprise with World Peaces, a Fair trade importing business that sends her across the globe throughout the year, with specialization in the key areas of Africa, Asia, and South America. Increasing the amount of FairTrade merchandise imported into the U.S. creates a dramatic change in the lives of those artisans who craft the goods, and she has significantly increased the knowledge locally of the power of this change via her many entrepreneurial and educational efforts. Along this line, she also has cofounded The Ethical Arts Collective in Franklinton, a place for socially minded artists, entrepreneurs and visionaries to come together to share ideas and resources—and ultimately, to join forces to make the world a better place.

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## CAREER PANEL

### JONATHAN TOOT

Jonathan Toot, MS, PhD, DABT is a Senior Toxicologist (Study Director) and head of Drug Abuse Liability Testing at WIL Research Laboratories located in Ashland, Ohio. WIL Research is contract research lab that conducts scientific studies for various US and international government agencies, including the EPA and FDA. WIL Research is a scientific research company with facilities located in Europe, Japan, and throughout the US.

Jonathan received his MS from Akron University in Physiology, and his PhD from Kent State University in Biomedical Physiology. For the past 6+ years, Jonathan has been conducting research studies for WIL Research in the departments of Developmental and Reproductive Toxicology, Juvenile Toxicology, and Neuroscience. In addition to mentoring graduate students, collaborating with scientists, and volunteering, Jonathan is also adjunct faculty at Ashland University and has taught courses in Applied Toxicology and Human Biology. While at WIL Research Jonathan has published original research, coauthored a book chapter, and presented research findings at scientific meetings (across the US and abroad) in topics ranging from drug abuse liability to neurodegenerative diseases to pregnancy induced models of pathology. Although working at WIL Research as a Study Director is focused on scientific research, his job also requires experience in marketing, business development, legal contracts, general drug development consulting, analytical/ bioanalytical chemistry, accounting, equipment/software validation, and research oriented scientific method development.

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## CAREER PANEL

### JILL SMITH

Jill Smith, Ph.D., is the English-Language Arts Curriculum Coordinator for Westerville City Schools and an adjunct lecturer at The Ohio State University in the School of Teaching and Learning. Before that she worked as the Program Manager for Middle Childhood M.Ed. program at OSU and was a full-time English teacher at Westerville Central High School. She completed her M.Ed. and doctorate at O.S.U. In her 16 years of as a high school English-Language Arts teacher she developed curriculum for Cultural Studies and American Literature classes and was actively involved on many committees such as Curriculum Council and Site Council in the Westerville School district. She also acted as advisor to her school's Gay-Straight Alliance and initiated anti-bullying policies in her school. She is a co-author and editor of *Acting Out!: Combating Homophobia and Heterosexism in Schools*, recognized in 2010 as an "Outstanding Academic Title" by the American Library Association and winner of the National Association of Multicultural Education Philip C. Chinn book award. Jill was awarded "Teacher of the Year" by Westerville City Schools in May of 2011 and was awarded the Holloways Human and Civil Rights Award by the Ohio Department of Education, also in spring of 2011. She currently resides in Columbus, Ohio with her partner, Kyle, and their two sons.

Jill's activism in her work and school communities and her academic publications led her to seeking out a position where she could have a strong voice in shaping equitable, more inclusive school spaces and can develop and support authentic professional development for teachers. She is currently working on a follow-up book to *Acting Out!* that will explore ways teachers can better support LGBTQ students and families. She also continues to present her work at local and national educational conferences such as OCTELA, NCTE, and AERA and will be teaching at Ataturk University in Turkey this May.



# **AWARDS LUNCHEON**

Performance Hall, Ground Floor

## **WELCOME ADDRESS**

Jamie Crowsley: Vice President, Council of Graduate Students

## **LUNCH MENU**

### **Appetizer**

Traditional Blend Salad - Mixed greens with Roma Tomatoes, cucumbers, carrots, and croutons with Ranch and Italian Dressings

### **Entrees**

Lemon Garlic Chicken - Roasted chicken leg and thigh quarter with lemon, garlic, and herbs served with roasted Roma tomatoes and mashed potatoes

Vegetarian Lasagna - Layers of fresh garden vegetables, pasta, and cheese in a white cream sauce

### **Dessert**

New York Style Cheesecake with Macerated Fresh Strawberries

## **REFLECTIONS**

Patrick S. Osmer, Dean of the Graduate School  
Javaune Adams-Gaston, Vice President for Student Life

## **AWARD PRESENTATIONS**

Awards will be announced by Jamie Crowsley  
Certificates will be presented by Dean Osmer, assisted by Alfred Yates

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## 2013 HAYES GRADUATE FORUM RECIPIENTS

CONGRATULATIONS TO THE WINNERS FROM THE 2013 HAYES FORUM!

### 2013 ORAL PRESENTATION WINNERS

#### **THE ARTS**

1st Place: Kellen Maicher  
2nd Place: Andrew Barry  
3rd Place: Joyelle Fobbs

#### **BIOLOGICAL SCIENCES**

1st Place: Jeffrey Wojton  
2nd Place: Rosanna Wotowicz

#### **BUSINESS**

1st Place: Karthikeya Easwar  
2nd Place: Matthew Wynter  
3rd Place: Beth Polin

#### **EDUCATION AND HUMAN ECOLOGY**

1st Place: Christin Carotta  
2nd Place: Elizabeth Beggrow  
3rd Place: Chad Campbell

#### **ENGINEERING**

1st Place: Mikael Hudoba  
2nd Place: Santino Carnevale  
3rd Place: Julie Thompson

#### **FOOD, AGRICULTURAL, AND ENVIRONMENTAL SCIENCES**

1st Place: Erin DiCaprio  
2nd Place: Wenfei Wang  
3rd Place: En Huang

#### **HUMANITIES**

1st Place: Austin Dean  
2nd Place: Chelsea Phillips  
3rd Place: Meagan Horn

#### **MATHEMATICS AND PHYSICAL SCIENCES**

1st Place: Lindsay Morrison  
2nd Place: Michael Severance  
3rd Place: Andrew Krygier

#### **PROFESSIONAL BIOLOGICAL SCIENCES**

1st Place: Ashley Frakes  
2nd Place: Erin Burns  
3rd Place: Matthew Mason

#### **SOCIAL AND BEHAVIORAL SCIENCES**

1st Place: Laren Conklin  
2nd Place: Eric Wohleb  
3rd Place: Jayeon Lee

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## 2013 HAYES GRADUATE FORUM RECIPIENTS (CONTINUED)

### 2013 POSTER PRESENTATION WINNERS

#### **POSTER: ARTS, HUMANITIES & SOCIAL SCIENCES**

1st Place: Ben Kerrick

2nd Place: Ciara Stigen

3rd Place: Zachariah Hubbell

#### **POSTER: BIOLOGICAL SCIENCES**

1st Place: Priscilla Lee

2nd Place: Nirav Shah

3rd Place: Christopher Hansen

#### **POSTER: ENGINEERING, MATHEMATICS, AND PHYSICAL SCIENCES**

1st Place: Eric Coleman

2nd Place: Steven Hansen

3rd Place: Aaron Short

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## THE COUNCIL OF GRADUATE STUDENTS

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, federal, state, and local officials. CGS also provides a forum for graduate students to discuss and act upon issues. The CGS promotes and provides academic, administrative, and social programs for graduate students and the greater university community. Up to 135 graduate students serve as delegates from the 133 graduate programs at Ohio State. These delegates are charged with representing over 10,000 graduate students.

*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 over 125 graduate students to serve on the university-wide and senate committees. CGS also appoints 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, the 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. Also, students will be able to assist the University pursue its strategic international goals by creating and bolstering relations with universities and other institutions across the world.









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