Undergraduate Research Conference
Butler University
April 8, 2016

Constructing New Knowledge Communities since 1987

www.bu功劳.edu/urc
@thebutlerurc
DAVID K. CAMPBELL, PH.D.

Phi Beta Kappa Visiting Scholar

A leader in the field of nonlinear science, David Campbell is Professor of Physics, Electrical, and Computer Engineering, and Professor of Materials Science and Engineering at Boston University.

His current research centers on the theoretical studies of localized nonlinear excitations, in particular in strongly correlated electronic materials and ultra-cold atoms. Campbell shared (with Shlomo Havlin) the 2010 APS Lilienfeld Prize for “pioneering new approaches to the study of complex systems ... and for communicating the excitement of this new field to diverse audiences.”

He co-founded and directed the Center for Nonlinear Studies at Los Alamos National Laboratory and was Professor and Chair of Physics at the University of Illinois at Urbana-Champaign. At Boston, he has served as Dean of the College of Engineering and as University Provost.

He is the founding editor-in-chief of Chaos: An Interdisciplinary Journal of Nonlinear Science, and a fellow of both the American Association for the Advancement of Science and the American Physical Society.

He has held visiting professorial positions in France, Russia, Hong Kong, China, Japan, and Brazil, and, most recently, served as the 2014 Gauss Professorship of the Academy of Sciences in Göttingen, Germany.

Phi Beta Kappa has celebrated excellence in the liberal arts and sciences and championed freedom of thought since its founding in 1776. The Society installed its Theta of Indiana Chapter at Butler University in 2010, making Butler one of only 286 universities nationwide to host a chapter of the country’s oldest and most prestigious academic honor society.

The Phi Beta Kappa Visiting Scholar Program offers undergraduates the opportunity to spend time with some of America’s most distinguished scholars. Visiting Scholars travel to 100 colleges and universities each year, spending two days on each campus. They meet informally with students and faculty members, participate in classroom discussions and seminars, and give a public lecture open to the academic community.
Welcome to Butler University’s Annual Undergraduate Research Conference.

More than 900 individuals representing 58 different colleges and universities in 11 different states registered for the 2016 conference. They will share close to 640 presentations today. Some 330 Butler student researchers are participating, and I am pleased that they have this opportunity to talk to and learn from so many talented peers.

The 2016 URC theme CONSTRUCTING NEW KNOWLEDGE COMMUNITIES since 1987 is a tip of the hat to the ongoing physical transformation of Butler’s campus. The crane pictured on the conference poster is the actual behemoth that lifted and positioned components of our new parking garage, which opened earlier this academic year.

To me, that crane also symbolizes the heavy lifting you have put into your research and creative projects. With the support of faculty mentors, you began at the ground level of your proposition. You measured and laid out your foundations, added layer upon layer of supportive evidence, and tested all along the way so that your final results would stand firm.

And, today, you present your creation to an audience who truly understands and applauds your efforts. Congratulations!

Fittingly, the conference’s keynote speaker—a first for the URC—is an academic known for constructing new knowledge. David Campbell is a groundbreaker in the field of nonlinear science, as well as Professor of Physics, Electrical, and Computer Engineering and Professor of Materials Science and Engineering at Boston University. In 2010, he and colleague Shlomo Havlin received the American Physical Society’s Lilienfeld Prize. It honored their “pioneering new approaches to the study of complex systems,” especially in Campbell’s study of electronic materials and ultra-cold atoms.

In his role as a Phi Beta Kappa Visiting Scholar, Professor Campbell is spending two days with us at Butler. Along with his URC address and a public lecture on his work, he has met with many students and faculty in our mathematics and science departments. Please help us welcome him and let him know how much we appreciate his example of dedicated and enthusiastic academic research.

Good luck in delivering your presentations. And, please, support your conference colleagues by attending as many other presentations as you can. I hope URC 2016 inspires you to continue exploring knowledge and sharing it with a world eager for your insights and solutions.

Sincerely,

James M. Danko, President
Butler University
As Butler University’s Director of Undergraduate Research and Prestigious Scholarships, it is my sincere privilege to welcome you to our 28th Undergraduate Research Conference (URC).

It should come as no surprise that I regard undergraduate research as one of the most significant activities in which all college students should engage. The Council of Undergraduate Research clearly outlines the benefits associated with undergraduate research: Administrators recognize the link between undergraduate research and increased retention and graduate program enrollment rates. Faculty directing undergraduate research enjoy cultivating interpersonal relationships with their students and seeing them mature intellectually. Students engaging in undergraduate research receive effective career preparation and develop their abilities to think creatively and critically, solve problems, and apply research methodologies.

As you attend today’s conference, I invite you to embody our theme and recognize the important role you play in constructing the knowledge that is generated and shared from intellectual exchanges such as this. Be sure to ask questions of the presenters—during the Question and Answer sessions, poster presentations, discussions in the hallways, or lunch. If you’re a presenter, seek out students engaging in the same type of research you conduct—discuss the challenges and rewards that you’ve encountered and perhaps learn an alternative approach you might use in the future.

In terms of building this conference, I must begin by thanking members of the URC Planning Committee for their invaluable assistance. Moreover, I cannot think of a better partner with whom to experience my first URC than Melissa Freidman, URC Coordinator. Melissa’s organizational skills, institutional knowledge, and good natured approach were always appreciated. Andrea Scarlett, Assistant Director of the Office of University Events, adeptly answered all questions, reassigned classrooms, and explained URC logistics. Mary Ellen Stephenson and Phil Eichacker of Butler Marketing & Communications developed and implemented expert communication plans and designed our new URC logo. Whitney Bryant, Senior Analyst with Information Technology, patiently helped me learn our new system and responded to all my inquiries in less than 15 minutes (even on weekends!). As I’ve learned in my eight months here, the dedication outlined above is typical of Butler University employees. Finally, I recognize my extraordinarily supportive spouse, Dr. Bill McKinney, for his insight and tolerance of late-night and weekend hours devoted to the URC.

While I am beginning my association with the URC, the Butler family says farewell to an individual who helped shape the URC into the interdisciplinary conference it is today: For the past 27 years, Dr. James Briscoe, Professor of Music, has encouraged students in the arts to participate in the URC and served as an area coordinator and moderator. We are grateful for his support and acknowledge his legacy.

Please introduce yourself to me today and let me know about your URC experience. Be sure to review the descriptions of the Research Roundtables and the Director’s Sessions/Competitive Paper Submissions that highlight exciting additions to next year’s conference. I thank you for attending the URC and hope to welcome you to our campus again next year.

All the best,

Dacia Charlesworth, PhD
Director, Undergraduate Research Conference
The Midwest Journal of Undergraduate Research invites students to submit manuscripts from any discipline to be considered for the April 2017 issue.

Call for undergraduate research papers

Manuscripts reviewed upon receipt

Submission deadline for guaranteed review for the 2017 issue: January 15, 2017

Email manuscripts to: mjursub@monmouthcollege.edu

For more info, including instructions for submission:

http://research.monm.edu/mjur/

Email: mjur@monmouthcollege.edu
CALL FOR STUDENT PAPERS

For publication in the

BUTLER JOURNAL OF UNDERGRADUATE RESEARCH
VOLUME 3 (April, 2017)

Volume 2  April, 2016  Now available online!
digitalcommons.butler.edu/bjur/

The second volume of the Butler Journal of Undergraduate Research (BJUR) has just been published and we are now soliciting student submissions for the third volume to be published next April, 2017. Undergraduate students presenting at the URC who have completed significant research and scholarship, such as a Senior Project, Honor’s Thesis, or other major work, are encouraged to submit their papers for potential publication in BJUR. Submission of papers is open to undergraduates from all colleges and universities and all papers will be reviewed by Butler faculty for possible inclusion. BJUR is international in scope, multidisciplinary, and publishes the best empirical or scholarly research from undergraduate students. Details regarding submission guidelines and deadlines are available online. First consideration will be given to papers received by May 18, 2016.

Butler University has long been distinguished by its commitment to high quality undergraduate education which includes significant support for undergraduate research. This is reflected by the establishment of the first Undergraduate Research Conference in 1988 (held annually ever since). The publication of BJUR represents another major milestone on Butler’s commitment to student success in scholarship and research.

Kenneth Colburn, Ph.D.  Tara Lineweaver, Ph.D.
Inaugural Editor, BJUR  Associate Editor, BJUR
Department of Sociology and Criminology  Department of Psychology
bjur@butler.edu  bjur@butler.edu
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**CONFERENCE SCHEDULE**

**CONTINENTAL BREAKFAST LOCATIONS**
(8:00 A.M. – 10:00 A.M.)
- Irwin Library, Lower Level
- Irwin Library, 2nd Floor
- Irwin Library, 3rd Floor

**BOX LUNCH DISTRIBUTION LOCATIONS**
(12:15 P.M. – 1:15 P.M.)
- Atherton Union, Reilly Room
- Pharmacy & Health Sciences Building, Lower Concourse
- Irwin Library, 1st Floor
NEW FOR 2017

We are excited to share with you three new additions for the 2017 Undergraduate Research Conference: Director’s Sessions, Competitive Paper Awards, and Research Roundtables.

**Director’s Sessions**: Students who have a completed project are invited to submit their papers to be competitively reviewed for presentation at the conference. Those students who submit their papers for review will be scheduled to present in a specially identified Director’s Session. These sessions will include time devoted to offer students specific feedback on their projects from scholars within the students’ discipline. Students who submit their papers competitively will also be automatically entered into the Competitive Paper Awards competition.

**Competitive Paper Awards**: All papers submitted for competitive review will be ranked by faculty. The four highest ranking papers will be featured in a “Top Four Competitive Papers” session. The author(s) of the highest ranking will be awarded $300; the author(s) of the second highest ranked paper will be awarded $150, and the authors of the third and fourth highest ranked paper will be awarded $50. Information about submitting papers competitively will be included in the 2017 URC Call for Submissions.

**Research Roundtables**: To continue our focus on assisting developing scholars, the URC will feature another venue for students to share preliminary results: Research Roundtables. Students will submit a brief abstract of the project they intend to complete or have partially completed. On the day of the URC, students will be grouped according to research interests/methodologies and will participate in a roundtable discussion whereby they share the status of their project and receive feedback from seasoned researchers in their field. Information about participating in a Research Roundtable will be included in the 2017 URC Call for Submissions.

**2017 URC**: APRIL 7

**SUBMISSION DEADLINE**: FEBRUARY 8, 2017
PLANNING COMMITTEE

Dr. Dacia Charlesworth  
Conference Director

Melissa Friedman  
Conference Coordinator

Whitney Bryant  
Information Technology Specialist

Andrea Scarlett  
Special Events Coordinator

Heather Vaughn  
University Library Coordinator

Teresa Williams  
University Library Coordinator

Zachary Skidmore  
Information Technology Adviser

Brian Wilson  
Information Technology Adviser

ACADEMIC AREA COORDINATORS

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Anthropology

Dr. Dacia Charlesworth  
Dance & Theatre

Dr. Chad Knoderer  
Pharmacy, Health Sciences, 
& Exercise Science

Dr. Gautam Rao  
Art Exhibitions

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Education

Ms. Dawn Pearson  
Pharmacy, Health Sciences, 
& Exercise Science

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Dr. J. Rocky Colavito  
English Literature & 
Creative Writing

Dr. Lynne Kvapil  
Philosophy & Religion

Dr. R. Jeremy Johnson  
Biochemistry & 
Molecular Biology

Dr. Irune del Río Gabiola  
Gender, Women’s, & 
Sexuality Studies

Dr. Xianming Han  
Physics & Astronomy

Dr. Jennifer Kowalski  
Biology

Dr. Vivian Deno  
History

Dr. Su-Mei Ooi  
Political Science

Dr. Hillary Buttrick  
Business & Economics

Dr. Eloise Sureau-Hale  
International Studies

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Sociology

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Chemistry

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Computer Science

Professor McKenzie Beverage  
Sustainability, Urban 
Ecology, & Environmental 
Studies

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Classical Studies

Dr. Alex Quintanilla  
Modern Languages

Dr. Amanda Gingerich  
Psychology

Dr. Casey Ryan Kelly  
Communication & 
Media Studies

Dr. James Briscoe  
Music

Dr. Dr. Antonio Menendez-Alarcon  
Sociology

Dr. Sofia Soutto  
Communication Sciences & 
Disorders

Dr. Nicholas Johnson  
Music
### Session Moderators

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<tr>
<th>Name</th>
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<tr>
<td>Adam Azman</td>
<td>Carrie Jung</td>
<td>Laura Ruckert</td>
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<td>Sean Berthrong</td>
<td>Laurence Kennedy</td>
<td>Carmen Salsbury</td>
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<td>James Briscoe</td>
<td>Jennifer Kowalski</td>
<td>Ann Savage</td>
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<td>Hilary Buttrick</td>
<td>Theresa Knipstein Meyer</td>
<td>Zachary Scarlett</td>
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<td>Natalie Carter</td>
<td>Lynne Kvapil</td>
<td>Marvin Scott</td>
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<td>Bryan Cataldi</td>
<td>Lindsay Lewellyn</td>
<td>Amina Shabani</td>
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<td>J. Rocky Colavito</td>
<td>Tara Lineweaver</td>
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<td>Tracy Costello</td>
<td>Elisa Lucchi-Riester</td>
<td>Dane Shiltz</td>
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<td>Lauren Czosnowski</td>
<td>Joel Martin</td>
<td>Sofia Souto</td>
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<td>Robert Dale</td>
<td>Jennifer McCann</td>
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<td>Kendra Damer</td>
<td>Siobhan McEvoy-Levy</td>
<td>Andrew Stoehr</td>
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<td>Annette McFarland</td>
<td>Eloise Sureau-Hale</td>
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<td>Vivian Deno</td>
<td>Gabriela Muniz</td>
<td>Brynnar Swenson</td>
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<td>Kristen Nichols</td>
<td>Liliana Torres-Goens</td>
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<td>Lisa Farley</td>
<td>Katherine Novak</td>
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<td>Margaretha Geertsema-Sligh</td>
<td>Gonzalo Ordonez</td>
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<td>R. Brian Giesler</td>
<td>Robert Padgett</td>
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<td>Amanda Gingerich</td>
<td>Peter Prescott</td>
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<td>Geoffrey Hoops</td>
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<td>R. Jeremy Johnson</td>
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<td>Joseph Jordan</td>
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<td>Melody Adkins</td>
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### Faculty & Staff

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<td>Lynn Alsatie</td>
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<td>Emma Graber</td>
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<td>Kati Yockey</td>
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<td>Shawn Harvey</td>
<td>Noemi Ponzoni</td>
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The URC Planning Committee would also like to thank staff members from University Events, Campus Impressions, Facilities, Marketing & Communications, Information Technology, University Library, and Butler University Police Department for their valuable contributions.
8:30 a.m. – 4:00 p.m.  
Irwin Library, 1st Floor

Barrettes: An Experiment in Storyboard Animation  
Alyssa Dyke, Butler University  
Faculty Sponsor: Gautam Rao, Butler University

Draw to Life  
Joel Fuller, Butler University  
Faculty Sponsor: Gautam Rao, Butler University

Empowering the Storyteller  
Joshua Gaal, Butler University  
Faculty Sponsor: Gautam Rao, Butler University

Memories  
Abbigail Miles, Butler University  
Faculty Sponsor: Gautam Rao, Butler University

Remembering Vietnam: American Perception of the War in Reporting, Film, and Art  
Patrick Mudd, Purdue University Calumet  
John Decker, Purdue University Calumet  
Susan Strong, Purdue University Calumet  
Faculty Sponsor: Joseph Bigott, Purdue University Calumet

Revitalize  
Brooke Dominguez, Butler University  
Faculty Sponsor: Gautam Rao, Butler University

Splattering and Stippling: Subconscious Consumption and Conscious Decisions  
Taylor Mansinne, Butler University  
Faculty Sponsor: Gautam Rao, Butler University

Textures and the City  
Tori Adachi, Butler University  
Faculty Sponsor: Gautam Rao, Butler University

Shout!  
Bekah Pollard, Butler University  
Faculty Sponsor: Gautam Rao, Butler University

Whispers  
Brittany Garrett, Butler University  
Faculty Sponsor: Gautam Rao, Butler University
ORAL PRESENTATIONS

9:30 a.m. – 10:45 a.m.  ANTHROPOLOGY  Jordan Hall 225

Moderator: Sholeh Shahrokhi

Ethnography and Infrastructure: Reimagining the Refugee and their Camp
  Salma Ghalyoun, DePaul University
  Faculty Sponsor: Shiera Malik, DePaul University

Reproductive Genocide of Native Americans
  Shelby Crum, Butler University
  Faculty Sponsor: Elizabeth Pfeiffer, Butler University

Tradition and Revolutionary Art: The Contemporary Russian Theatre
  Rhett Dial, Butler University
  Faculty Sponsor: Elise Edwards, Butler University

“Capitalist Societies”: How Self-Governmentality Produces Model Citizens Continually Reinforced Through the Spirit of Capitalism
  Alexia Maggos, Butler University
  Faculty Sponsor: Elise Edwards, Butler University

1:30 p.m. – 2:45 p.m.  ART EXHIBIT PRESENTATIONS 1  Lilly Hall 133

Supply and Demand: Materiality in Contemporary Art Practices

Moderator: Gautam Rao

Whispers
  Brittany Garrett, Butler University
  Faculty Sponsor: Gautam Rao, Butler University

Textures and the City
  Tori Adachi, Butler University
  Faculty Sponsor: Gautam Rao, Butler University

Revitalize
  Brooke Dominguez, Butler University
  Faculty Sponsor: Gautam Rao, Butler University

Splattering and Stippling: Subconscious Consumption and Conscious Decisions
  Taylor Mansinne, Butler University
  Faculty Sponsor: Gautam Rao, Butler University

Shout!
  Bekah Pollard, Butler University
  Faculty Sponsor: Gautam Rao, Butler University
3:00 p.m. – 4:15 p.m.  ART EXHIBIT PRESENTATIONS 2  Lilly Hall 133

The Portrait: Animated and Reimagined

Moderator: Gautam Rao

Barrettes: An Experiment in Storyboard Animation
   Alyssa Dyke, Butler University  
   Faculty Sponsor: Gautam Rao, Butler University

Empowering the Storyteller
   Joshua Gaal, Butler University
   Faculty Sponsor: Gautam Rao, Butler University

Draw to Life
   Joel Fuller, Butler University
   Faculty Sponsor: Gautam Rao, Butler University

Memories
   Abbigail Miles, Butler University
   Faculty Sponsor: Gautam Rao, Butler University

11:00 a.m. – 12:15 p.m.  ART HISTORY  Lilly Hall 133

Influence and Identity: Contextualizing Visual Art

Moderator: Elizabeth Mix

Gender Roles in Nineteenth Century Japan: A Case Study of Hokusai’s The Hundred Ghost Print Series
   Kelsey Johnson, Hanover College
   Faculty Sponsor: Jui-man (Mandy) Wu, Hanover College

Memory and Cultural Identity: Contemporary Taiwanese Artists—Chen Shun-Chu and Chen Hui-Chiao
   Patricia McCormick, Hanover College
   Faculty Sponsor: Jui-man (Mandy) Wu, Hanover College
Biochemical Basis of Disease

Moderator: Geoffrey Hoops

Determination of the Biological Function of OVCA2, a Potential Ovarian Cancer-Related Enzyme

Jessica Bun, Butler University
R. Jeremy Johnson, Butler University
Faculty Sponsor: R. Jeremy Johnson, Butler University

Investigation into the Regulation of CST6 by p53 Following Cellular Stress

Robin Weyman, Belmont University
Jasmin Mohn, Belmont University
Faculty Sponsor: Chris Barton, Belmont University

Epigallocatechin gallate (EGCG) rescues neuromuscular Defects Associated with Expression of the Mammalian Down Syndrome Critical Gene Dyrk1a in C. elegans motor neurons

Amber Kline, Butler University
JoAnne Babula, Butler University
Jennifer Kowalski, Butler University
Faculty Sponsor: Jennifer Kowalski, Butler University

p53-Mediated Regulation of CCNH in Response to Paclitaxel-Induced Mitotic Stress

Morgan Turner, Belmont University
Taeler Dahm, Belmont University
Faculty Sponsor: Chris Barton, Belmont University

Protein Structure and Function

Moderator: R. Jeremy Johnson

Measuring Kinetics and Substrate Specificity of the Mycobacterial esterase LipN Through Latent Fluorophore Substrates

Stephanie Raynor, Butler University
Faculty Sponsors: Geoffrey Hoops and R. Jeremy Johnson, Butler University

Transcription Factor p53 and its Regulation of Pro-Apoptotic Gene Bnip3L During Heat Shock

Eeleyah Singh Tanwar, Belmont University
Faculty Sponsor: Chris Barton, Belmont University

Visualizing Live Cell Membrane Binding for FTT258

Whitney Hart, Butler University
Faculty Sponsor: R. Jeremy Johnson, Butler University
### 9:30 a.m. – 10:45 a.m.  
**BIOLOGY 1**  
Pharm. & Health Sci. Bldg. 106A

**Molecular and Cellular Biology**

**Moderator:** Philip Villani

- **Long-term Outcomes and Complications of the Boston Type 1 Keratoprosthesis**  
  **Nicholas Auteri**, Thomas More College  
  Faculty Sponsors: Edward Holland, Brad Genereux, Andrea Ang, Clara Chan, and David Hair, Thomas More College

- **The Role of Ethylene in Systemic Acquired Resistance in Moss**  
  **Keiffer Williams**, Butler University  
  Faculty Sponsor: Nathanael Hauck, Butler University

- **The (Non-)Correlation of Growth and Turgor-Induced Elastic Strain in Root Growth Zones**  
  **Megan Kelley**, Indiana University-Purdue University Fort Wayne  
  Faculty Sponsor: Winfried Peters, Indiana University-Purdue University Fort Wayne

- **Determination of Hydrogen Peroxide During Hypersensitive Response**  
  **Tyler Schenck**, Butler University  
  Faculty Sponsor: Philip Villani, Butler University

### 11:00 a.m. – 12:15 p.m.  
**BIOLOGY 2**  
Pharm. & Health Sci. Bldg. 106A

**Neurobiology**

**Moderator:** Jennifer Kowalski

- **Chemotaxis Assay of Caenorhabditis elegans to Bacillus thuringiensis strain 4A4 in vegetative and sporulated growth stages**  
  **Angel Brothers**, Belmont University  
  Faculty Sponsors: Robert Grammer and Roger Jackson, Belmont University

- **The Effect of Caffeine Concentration and Time of Exposure on C. elegans Locomotion Towards an Attractant**  
  **Julisa Nunez**, Belmont University  
  Faculty Sponsors: Robert Grammer and Roger Jackson, Belmont University

- **Investigation of the Localization and Expression of the G-protein Coupled Receptor FSHR-1 in C. elegans Neurons**  
  **Kyle Cherry**, Butler University  
  **Amy Godfrey**, Butler University  
  Faculty Sponsor: Jennifer Kowalski, Butler University

- **Investigation of the Role of the G Protein-Coupled Receptor FSHR-1 in Regulating Synaptic Transmission in C. elegans**  
  **Allyson Munneke**, Butler University  
  **Sarah Olofsson**, Butler University  
  **Julie Kolnik**, Butler University  
  **Amy Godfrey**, Butler University  
  Faculty Sponsor: Jennifer Kowalski, Butler University
Developmental Biology

Moderator: Lindsay Lewellyn

Melatonin and Tannic Acid Supplementation Improve Fertilization and Embryonic Development in Pigs

Rachel Lane, The University of Findlay
Faculty Sponsor: Brian Whitaker, The University of Findlay

The Effects of Glucuronic Acid and N-Acetyl-D-Glucosamine Supplementation During In Vitro Fertilization of Porcine Oocytes

Kaitlyn Dastoli, The University of Findlay
Faculty Sponsor: Brian Whitaker, The University of Findlay

The Effects of Coenzyme Q10 on Fertilization and Mitochondrial Activity in Porcine Oocytes

Caitlin Streacker, The University of Findlay,
Kaitlin James, The University of Findlay
Faculty Sponsor: Brian Whitaker, The University of Findlay

The Significance of Presumptive Somite-Notochord Spreading in Xenopus laevis Elongation

Sophia Robinson, Valparaiso University,
Elizabeth Walsh-Rock, Valparaiso University
Faculty Sponsor: Grayson Davis, Valparaiso University

Population Ecology

Moderator: Carmen Salsbury

Dung Preference and Competition Affecting Ball Rolling Dung Beetles (family Scarabidae) in Northern Tanzania

Miyoshi Gonzalez, Earlham College
Andrew Collins, Earlham College
Elisabeth Sorrows, Earlham College
Faculty Sponsor: Brent Smith, Earlham College

Evaluating White-crowned Manakin use of space in the Ecuadorian Amazon

Dörte Neumeister, Earlham College
Erin Lewis, Earlham College
Zara Silberberg, Earlham College
Kasun Bodawatta, Earlham College
Faculty Sponsor: Wendy Tori, Earlham College

Behavioral Observations of Vervet Monkey (Cercopithecus aethiops) Troops in North-Central Tanzania

Laura Caldwell, Earlham College
Katherine Sorrows, Earlham College
Sarah Murphy, Earlham College
David Curry, Earlham College
Faculty Sponsor: Brent Smith, Earlham College

Assessing Predator Detection and Avoidance Behavior of Rusty Crayfish (Orconectes rusticus) in the Presence of Hellbenders (Cryptobranchus allegeniensis) and Smallmouth Bass (Micropterus dolomieu)

Paige Weldy, Purdue University
Faculty Sponsor: Rod Williams, Purdue University
Evolution and Biological Diversity

Moderator: Sean Berthrong

A Review of the Study of Chemical Evolution
Allen Murray, Purdue North Central
Faculty Sponsors: Heather Fielding, Lindsay Gielda, and Michelle Spaulding, Purdue North Central

Characterization and Comparison of Mycobacteriophages Isolated from Unique Soil Samples
Nathan Blaine, Bellarmine University
Faculty Sponsor: Joanne Dobbins, Bellarmine University

Phylogenetic Analysis of the Internationally Diverse Conifer Trees at the Cope Environmental Center Based on Mitochondrial nad5 and Chloroplast matk Targeted DNA Sequencing
Hannah Franklin, Earlham College
Malia Paulmier, Earlham College
Peregrine Ke-Lind, Earlham College
Faculty Sponsor: Peter Blair, Earlham College

Using Targeted Large Subunit rDNA Sequencing to Analyze Morphological Strain Variants in Two Geographically Separated Populations of the Digenean Trematode Proterometra macrostoma
Malia Paulmier, Earlham College
Peregrine Ke-Lind, Earlham College
Hannah Franklin, Earlham College
Faculty Sponsor: Peter Blair, Earlham College

Ecology and Phenotypic Plasticity

Moderator: Andrew Stoehr

Etiological study of molt abnormalities in the African penguin, Spheniscus demersus
Carah Austin, Butler University
Faculty Sponsor: Andrew Stoehr, Butler University

Climate Effects on Nesting Phenology in Nebraska Turtles
Erin Lewis, Earlham College
Ashley Hedrick, Earlham College
Andrew Hood, Earlham College
Faculty Sponsor: John Iverson, Earlham College

Small Mammal Diversity and Abundance in Wrangell-St Elias National Park, Alaska
Zara Silberberg, Earlham College
Liyuan Gao, Earlham College
Faculty Sponsor: Karen Mager, Earlham College

Seasonal Wing Pattern Variation in the Cabbage White Butterfly
Kayla Nienhaus, Butler University
Faculty Sponsor: Andrew Stoehr, Butler University
11:00 a.m. – 12:15 p.m.   BUSINESS & ECONOMICS 1   Holcomb Building 122

Exploring the Impact of Investing in Education, Training, & Social Enterprise

Moderator: Bryan Cataldi

Investment in the Future: Measuring the Impacts of Educational Technology on Learning in Indianapolis-Area Schools
   Daniel Johnson, Butler University
   Faculty Sponsors: Kathy Paulson-Gjerde, Peter Grossman, and Joshua Owens, Butler University

Analysis of the Effectiveness of Training Methods
   Wendy Childress, Purdue North Central
   Faculty Sponsor: Elizabeth Christo-Baker, Purdue North Central

Using Education to Create a Social Enterprise Local Culture
   Heather Siller, Anderson University
   Faculty Sponsor: Mike Wiese, Anderson University

Funding Higher Education in the Midst of Change
   Jordan Nelson, Eastern Illinois University
   Faculty Sponsor: Ayse Costello, Eastern Illinois University

1:30 p.m. – 2:45 p.m.   BUSINESS & ECONOMICS 2   Holcomb Building 122

Investigating Issues Related to Health Care, Agriculture, & Entrepreneurship

Moderator: Marleen McCormick

When You Need More Than Just an Apple a Day: A Review of the Empirical Evidence Relating to Disparities in Access to Health Care and a Preliminary Perspective on the Effects of the Patient Protection and Affordable Care Act
   Alexis Coulis, Butler University
   Faculty Sponsor: Thomas Litkowski, Butler University

The Right to Health Care and the Decent Minimum for Disease Epidemics
   Chad Pingel, Butler University
   Faculty Sponsor: Richard McGowan, Butler University

The Impact of Agricultural Aid in Reducing Poverty
   Mark O’Brien, Anderson University
   Faculty Sponsor: Hyeon Joon Shin, Anderson University

Entrepreneurship is For Everyone
   Jordon Glover, Anderson University
   Faculty Sponsor: Mike Wiese, Anderson University
Analyzing Employers’ & Employees’ Roles in National & International Contexts

Moderator: Peter Prescott

Effects of Fiscal Policy on Consumer Confidence
Sara Omohundro, Butler University
Faculty Sponsor: William Rieber, Butler University

Industry Efforts to Socialize the Struggles of Their Workers in the Early Years of the Great Depression
Daniel Johnson, Butler University
Faculty Sponsor: Peter Grossman, Butler University

A Cross-Cultural Study Examining Social Cause Preference in Cause Related Marketing Campaigns: Chile and the United States
Alicia Helfrich, Butler University
Faculty Sponsor: Margaret Padgett, Butler University

Social Enterprises
Ivaan Shrestha, Anderson University
Faculty Sponsor: Michael Wiese, Anderson University

The Physician as an Entrepreneur: Effect of Physician Ownership of Ambulatory Medical Centers on Healthcare Resource Utilization
Priyanka Prasad, Butler University
Faculty Sponsor: Jennifer Rice, Butler University

Chiroptical Ionic Liquids
Jordan Hochstetler, Butler University
Faculty Sponsor: Todd Hopkins, Butler University

Introducing Computational Chemistry into First-year Undergraduate Lab Curriculum
Andrew Pemberton, Taylor University
Michael Nahrstadt, Taylor University
Faculty Sponsor: Brandon Magers, Taylor University

Synthesis of Metal-POCOP and -PNCNP Pincer Compounds to Catalyze the Transfer Hydrogenation of Biomass-Derived Substrates
Andrea Onyett, University of Evansville
Matthew Abele, University of Evansville
Faculty Sponsor: Todson Thanathanachon, University of Evansville

Use of a Solid State Copper Hydride Catalyst
Olufunmilayo Arogbokun, Butler University
Faculty Sponsor: Stacy O’Reilly, Butler University

Resolution of a Chiral Glycerol Based Acetal
Andrew Bradley, Butler University
Faculty Sponsor: Stacy O’Reilly, Butler University
### 1:30 p.m. – 2:45 p.m.  
**CLASSICAL STUDIES**  
Jordan Hall 280

**Buskins, Boots, and Beliefs in Ancient Greece and Rome**

Moderator: **Lynne Kvapil**

A Comparison of the Greek and Roman Theatre Experience  
**Claire Kedjidjian**, Butler University  
Faculty Sponsor: **Lynne Kvapil**, Butler University

Preaching Christ Crucified: Origen’s Apologetic Strategy in Contra Celsum  
**Morgan Thompson**, Xavier University  
Faculty Sponsor: **Thomas Strunk**, Xavier University

Influences on the Roman Empire: Evolution of Military Weaponry  
**Meaghan Perry**, Butler University  
Faculty Sponsor: **Lynne Kvapil**, Butler University

### 9:30 a.m. – 10:45 a.m.  
**COMMUNICATION & MEDIA STUDIES 1**  
Jordan Hall 207

**Communication and College Student Identity**

Moderator: **Lindsay Ems**

Most Influential Factors Affecting Self-Esteem of College Males and Females  
**Miranda Palmer**, Huntington University  
**Alexandra Polluck**, Huntington University  
Faculty Sponsor: **Michael Rowley**, Huntington University

An Examination of College Students’ Perceptions and Stigmas of Tattoos  
**Rachel TerMarsch**, Huntington University  
Faculty Sponsor: **Michael Rowley**, Huntington University

Male Self-Esteem and Media Influence  
**Kristen Dilley**, Huntington University  
**Alexa Walczak**, Huntington University  
Faculty Sponsor: **Michael Rowley**, Huntington University

Lecture Versus Discussion  
**Courtney Borton**, Huntington University  
**Anna-Kay Levy**, Huntington University  
Faculty Sponsor: **Michael Rowley**, Huntington University
Subjectivities in Film and Media: Gender and Identity

Moderator: Ann Savage

Mad Max Is a Hardcore Feminist, I Swear: Rhetorically Constituting the “Furious” Feminist Ally in Mad Max: Fury Road
   Laura Wilhelm, Butler University
   Faculty Sponsor: Kristin Swenson, Butler University

Expanding the Superhero Genre
   Eva Schafer, Butler University
   Faculty Sponsor: Kristin Swenson, Butler University

Normalizing of Prostitution: The Restructured Cinderella Metanarrative in the film Pretty Woman
   Jennifer Shepherd, Taylor University
   Faculty Sponsor: Jessica Rousselow-Winquist, Taylor University

Cinema Paradiso: A Nostalgic Look at Italian Film
   Lauren Collins, Indiana University-Purdue University Indianapolis
   Faculty Sponsor: Dennis Bingham, Indiana University-Purdue University Indianapolis

Legal and Economic Challenges in Online Communication

Moderator: Robert Norris

Catfishing: Online Deception at a Glance
   Nicole Kelly, Huntington University
   Faculty Sponsor: Michael Rowley, Huntington University

Facebook and Online Privacy Law
   Craig Tierney, Butler University
   Faculty Sponsor: Nancy Whitmore, Butler University

College Students and the Economic, Social, Convenient and Ethical Considerations of Music Piracy
   Savannah Mitchell, Hanover College
   Faculty Sponsor: Kay Stokes, Hanover College

A Rhetorical Criticism of the Humans of New York Movement
   Hiers Mackenzie, Trine University
   Faculty Sponsor: Jessica Rousselow-Winquist, Trine University
1:30 p.m. – 2:45 p.m.  COMMUNICATION & MEDIA STUDIES 4  Jordan Hall 207

The Intersections of Race and Gender Communication: Historic to Contemporary

Moderator: Casey Ryan Kelly

Frederick Douglass: How the Man Was Made a Myth
   Lynette Taylor, Indiana University-Purdue University Indianapolis
   Cory Hunt, Indiana University-Purdue University Indianapolis
   Faculty Sponsors: John Kaufman-McKivigan, Jonathan Rossing, and Jeffery Duvall, Indiana University-Purdue University Indianapolis

The Legacy of Frederick Douglass’s Words
   Peter Harrah, Indiana University-Purdue University Indianapolis
   Emily Koenn, Indiana University-Purdue University Indianapolis
   Faculty Sponsors: John Kaufman-McKivigan, Jonathan Rossing, and Jeffery Duvall, Indiana University-Purdue University Indianapolis

Stealing the Mic: Struggles of the Black Female Voice in Rap
   Miranda Flores, Butler University
   Faculty Sponsor: Kristin Swenson, Butler University

The “Blurred Lines” between Misogyny and Feminism: Ideology of Rape Culture in Robin Thicke and Pharrell Williams’ Hit Single
   Kiersten Howell, Butler University
   Faculty Sponsor: Kristin Swenson, Butler University

3:00 p.m. – 4:15 p.m.  COMMUNICATION & MEDIA STUDIES 5  Jordan Hall 205

Perception, Memory, and Opinion in Communication Research

Moderator: Margaretha Geertsema-Sligh

Right This Way: Constructing Trust in History Museums
   Gara Gaines, Hanover College
   Faculty Sponsor: Valerie Young and Bill Bettler, Hanover College

Dress for Success
   Olivia Watkins, Huntington University
   Abigail Thiebaut, Huntington University
   Faculty Sponsor: Mike Rowley, Huntington University

The Relationship Between Personality Types and Political Affiliation
   Angelica Thompson, Huntington University
   Faculty Sponsor: Michael Rowley, Huntington University

Interactive Advertising and Opinion Expression: A Qualitative Analysis
   Roxi Morris, Hanover College
   Faculty Sponsor: Bill Bettler, Hanover College
3:00 p.m. – 4:15 p.m.  COMMUNICATION & MEDIA STUDIES 6  

Communication Ethics Across Media

Moderator: **Rose Campbell**

- Extralegal Justice in the Mass Effect Trilogy  
  - **Maddi Rasor**, Butler University  
  - Faculty Sponsor: **Angela Hofstetter**, Butler University

- Unconstitutionality of Ag Gag  
  - **Katelyn Breden**, Butler University  
  - Faculty Sponsor: **Nancy Whitmore**, Butler University

- Perceptions: State Lottery and Gambling Addiction  
  - **Manuel Almanza**, Eastern Illinois University  
  - Faculty Sponsor: **Rodney Marshall**, Eastern Illinois University

1:30 p.m. – 2:45 p.m.  COMMUNICATION SCIENCES & DISORDERS  

Exploring Aphasia, Narrative Development, & Literacy

Moderator: **Sofia Souto**

- Effects of Familiarity and Presentation Mode on Auditory-Visual Speech Recognition in Adults with Aphasia  
  - **Rachel Hahn**, Butler University  
  - Faculty Sponsor: **Mary Gospel**, Butler University

- Narrative Development and Assessment in English Language Learners and Native English Speakers  
  - **Candace LaPrairie**, Eastern Illinois University  
  - Faculty Sponsor: **Angela Anthony**, Eastern Illinois University

- Early Literacy Screening Tools: A Systematic Review  
  - **Alexandra Bode**, Butler University  
  - Faculty Sponsor: **Ann Bilodeau**, Butler University

- The Relationship Between Conversational Pause Duration and Vocabulary Acquisition in Infants with Cochlear Implants  
  - **Kelsey De La Croix**, Butler University  
  - Faculty Sponsor: **Sofia Souto**, Butler University
Moderator: **Courtney Rousseau**

**The Link Between American Deaf Culture and Dance: Assessing Nonverbal Communication in Each Field and Recognizing the Value of Deaf Dancers**

**Chloe Edelstein**, Butler University  
Faculty Sponsor: **Cynthia Pratt**, Butler University


**Robyn Jutsum**, Butler University  
Faculty Sponsor: **Derek Reid**, Butler University

**Movement and Music: Exploring the Relationship Between Music and Dance**

**Savannah Dunn**, Butler University  
Faculty Sponsor: **Derek Reid**, Butler University

**Realistic Acting Methods in Non-Realistic Theatre: The Benefits of Integrating Konstantin Stanislavsky’s Theories into Bertolt Brecht’s Epic Theatre**

**Taylor Galloway**, Butler University  
Faculty Sponsor: **Wendy Meaden**, Butler University

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**Exploring the Political Side of Learning**

Moderator: **Lisa Farley**

**College Students’ Awareness of Sexual Misconduct Resources**

**Meghan Sellin**, Valparaiso University  
**Kimberlyn Chermak**, Valparaiso University  
**Rachel Briegel**, Valparaiso University  
Faculty Sponsor: **Matthew Ringenberg**, Valparaiso University

**Extracurricular Involvement as a Predictor of College Adjustment**

**Brandie Gaebel**, Anderson University  
Faculty Sponsor: **Laura Stull**, Anderson University

**Political Agendas and Education: Textbooks and Geographical Impacts**

**Rachel Patterson**, Butler University  
Faculty Sponsor: **Shelly Furuness**, Butler University

**The Indiana Teacher Shortage: Interpretations and Implications**

**Kathleen Glackin**, Butler University  
Faculty Sponsor: **Susan Adams**, Butler University

**Through a Healthy Lens**

**Kayla Pope**, Butler University  
Faculty Sponsor: **Lisa Farley**, Butler University
3:00 p.m. – 4:15 p.m.  
**EDUCATION 2**  
Jordan Hall 170

**Pedagogical Approaches**

**Moderator: Theresa Knipstein Meyer**

Designing and Curating a Classroom Library for Life Long Readers  
**Kalie Bennington**, Butler University  
Faculty Sponsor: **Kelli Esteves**, Butler University

Foreign Language Acquisition in the Traditional American Classroom  
**Joshua Villafuerte**, Butler University  
Faculty Sponsor: **Susan Adams**, Butler University

Khan Academy: Using Evidence-based Techniques to Improve Learning  
**Alexandra Alayn**, Indiana Wesleyan University  
**Emily Ragsdale**, Indiana Wesleyan University  
**Olivia Hayes**, Indiana Wesleyan University  
**Mackenzie Cook**, Indiana Wesleyan University  
**Kelsey Evey**, Indiana Wesleyan University  
**Garett Cobb**, Indiana Wesleyan University  
**Kaylin Gandy**, Indiana Wesleyan University  
**Dhiau Reng**, Indiana Wesleyan University  
Faculty Sponsors: **Christopher Devers, Thomas Lehman, Erin Devers**, and **Timothy Steenbergh**, Indiana Wesleyan University

The Prevalence of Visual, Auditory, and Kinesthetic Senses Students with Low-Incidence Disabilities Utilize When Receiving Instruction  
**Elizabeth Gormley**, Butler University  
Faculty Sponsor: **Theresa Meyer**, Butler University

9:30 a.m. – 10:45 a.m.  
**ENGLISH LITERATURE & CREATIVE WRITING 1**  
Jordan Hall 301

**Moderator: J. Rocky Colavito**

The Gospel of Cohn: An Analysis of Language in Bernard Malamud’s *God’s Grace* through Kenneth Burke’s Identification  
**Ashley Ekmay**, Butler University  
Faculty Sponsor: **J. Rocky Colavito**, Butler University

Rock Facts, the Unknown, Literary Themes, and How They All Fit Together  
**Samantha Irzyk**, Purdue University North Central  
Faculty Sponsor: **Heather Fielding**, Purdue University North Central

The Illusion of Reality: How Hal and Lily Use Language and Entertainment to Divert Themselves  
**Adam Kelly**, Taylor University  
Faculty Sponsor: **Nancy Dayton**, Taylor University

The Dichotomy of War Depictions  
**Katie Yackey**, Butler University  
Faculty Sponsor: **Natalie Carter**, Butler University
9:30 a.m. – 10:45 a.m.  
ENGLISH LITERATURE & 
CREATIVE WRITING 2  
Jordan Hall 303

Moderator: Lee Garver

A Meth to His Madness: Walter White as a Modern Tragic Hero
   Samantha Weiler, Grace College
   Faculty Sponsor: Paulette Sauders, Grace College

Don’t Forget the Henchman
   Alexis Nelson, Grace College
   Faculty Sponsor: Paulette Sauders, Grace College

Living for the Soul: Dolly’s Heroism in Anna Karenina
   Mara Minion, Butler University,
   Faculty Sponsor: Paul Valliere, Butler University

The “Doubling” Effect of Double Consciousness
   Javiera Green, Eastern Illinois University
   Faculty Sponsor: Fern Kory, Eastern Illinois University

11:00 a.m. – 12:15 p.m.  
ENGLISH LITERATURE & 
CREATIVE WRITING 3  
Jordan Hall 301

Moderator: J. Rocky Colavito

Beyond Bars: How Print and Visual Media Contributed to the Exploitation of the Dionne Quintuplets and the Gosselin Sextuplets
   Amory Orchard, Ball State University
   Faculty Sponsor: Joyce Huff, Ball State University

The Digital Literature Review: An Undergraduate Scholarly Journal Experience
   Bryce Longenberger, Ball State University
   Kathryn Hampshire, Ball State University
   Faculty Sponsor: Joyce Huff, Ball State University

Freak Shows in Academia
   Jessica Carducci, Ball State University
   Lauren Seitz, Ball State University
   Faculty Sponsor: Joyce Huff, Ball State University

The Politics of Plotting: Gender Reversal and Identity Subversion in the Late Novels of Chuck Palahniuk
   Olivia DeClark, Indiana University Bloomington
   Faculty Sponsor: Rebekah Sheldon, Indiana University Bloomington
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| 11:00 a.m. – 12:15 p.m. | ENGLISH LITERATURE & CREATIVE WRITING 4 | Jordan Hall 303  | Bill Walsh    | Setting the Murderous Machiavel to School: An Analysis of Machiavelli’s *The Prince* and Shakespeare’s Contrasting Machiavels  
Josh Vahle, Taylor University  
Faculty Sponsor: Nancy Dayton, Taylor University  

Social Factors of the Norman Conquest  
Jordyn Stowers, Grace College  
Faculty Sponsor: Paulette Sauders, Grace College  

Mordred & Arthur: The Effect of the Anti-Hero on the Hero  
Catherine Brassell, Hanover College  
Faculty Sponsor: Paul Battles, Hanover College |
|               |                                  |                   |                |                                                                                               |
| 11:00 a.m. – 12:15 p.m. | ENGLISH LITERATURE & CREATIVE WRITING 5 | Jordan Hall 336C  | Bill Watts    | Three Defiant Women: The Evolution of 19th Century Women in Patriarchal Society  
Noah Patterson, Ball State University  
Faculty Sponsor: Donald Gilman, Ball State University  

Interpreting William Blake’s “Songs of Innocence and Experience”  
Lauren Scavo, Grace College  
Faculty Sponsor: Paulette Sauders, Grace College  

Games and the Experience of Literature  
Marisa Von Ruden, Eastern Illinois University  
Faculty Sponsor: Dagni Bredesen, Eastern Illinois University |
ENGLISH LITERATURE & CREATIVE WRITING 6  
Jordan Hall 301

1:30 p.m. – 2:45 p.m.

Moderator: J. Rocky Colavito

The Cartography of the New World: European Explorers’ Literary Maps of the Americas
Sarah Tietz, Butler University  
Faculty Sponsor: Brynnar Swenson, Butler University

A Wiseman’s Revolt: After the Collapse
Mitchell Wiesjahn, Purdue University North Central  
Faculty Sponsor: Heather Fielding, Purdue University North Central

Navigating Through Labyrinths: A Comparative Study of Kafka and Nabokov
Davis Wetherell, Taylor University  
Faculty Sponsor: Nancy Dayton, Taylor University

Teacup Deities and Demons
Sarah Lyons, Taylor University  
Faculty Sponsor: Nancy Dayton, Taylor University

ENGLISH LITERATURE & CREATIVE WRITING 7  
Jordan Hall 303

1:30 p.m. – 2:45 p.m.

Pecha Kucha Presentations

Moderator: Ania Spyra

The Many Faces of Liminality
Hayley Gearheart, Butler University  
Faculty Sponsor: Ania Spyra, Butler University

Who You Are and Where You’re From: Liminality and Hybridity in Transnationalism
Dani Wallace, Butler University  
Faculty Sponsor: Ania Spyra, Butler University

Transnational Identities and the Abject
Natalie Verhines, Butler University  
Faculty Sponsor: Ania Spyra, Butler University

Visible Borders in Film
Miren Mohrenweiser, Butler University  
Faculty Sponsor: Ania Spyra, Butler University
Moderator: Carol Reeves

Hit Me Baby One More Time: The Normalization of Sadistic Male Figures in Romance Novels
   Hana Goodman, Butler University
   Faculty Sponsor: Angela Hofstetter, Butler University

Love Does Not Matter: Marriage as Described in Literature
   Maryanne Cox, Ball State University
   Faculty Sponsor: Donald Gilman, Ball State University

The Meaning of Masculinity
   Sarah Coffing, Butler University
   Faculty Sponsor: Natalie Carter, Butler University

Women, Sex, and Power: The Modernist Perspective
   Eileen Long, Purdue University North Central
   Faculty Sponsor: Heather Fielding, Purdue University North Central

Moderator: Denise Wilson

Life Lessons in Literature: Margaret Atwood on Women in the Workplace
   Jasmine Cervik, Purdue North Central
   Faculty Sponsor: Jesse Cohn and Heather Fielding, Purdue North Central

The Foundling and the Sea Captain: Contractual Relationships in Nineteenth Century Literature
   Francis Allen, Butler University
   Faculty Sponsor: Brynnar Swenson, Butler University

The Hemingway Code Hero: The Old Man Santiago
   Grace Dillow, Butler University
   Faculty Sponsor: Natalie Carter, Butler University

Tarot and Henri Rousseau’s “The Dream”
   Cody Wiswasser, Ball State University
   Faculty Sponsor: Donald Gilman, Ball State University
Moderator: J. Rocky Colavito

All the Other Lights Say Go
Veronica Toth, Taylor University
Faculty Sponsor: Nancy Dayton, Taylor University

Not a Formula
Caroline Nurkkala, Taylor University
Faculty Sponsor: Nancy Dayton, Taylor University

Smoke Inhalation is No Way to Die
Malinda Patterson, Taylor University
Faculty Sponsor: Nancy Dayton, Taylor University

The Mystery of the Character
Cassandra Christopher, Butler University
Faculty Sponsor: Bryan Furuness, Butler University

Moderator: Natalie Carter

Freaks and Magic: The Freakification of Magical Creatures in Harry Potter
Cassandra Grosh, Ball State University
Faculty Sponsor: Joyce Huff, Ball State University

Exploring the Anxieties of “Cortes Island”
Niels Jacoby, Purdue University North Central
Faculty Sponsor: Heather Fielding, Purdue University North Central

Harry Potter and Morality
Jessica Martorano, Butler University
Faculty Sponsor: Richard McGowan, Butler University
3:00 p.m. – 4:15 p.m.  ENGLISH LITERATURE & CREATIVE WRITING 12  Jordan Hall 336C

Moderator: Jim Keating

From Private to Public: Munro and Plath
Jessica Streeter, Purdue University North Central
Faculty Sponsor: Heather Fielding, Purdue University North Central

Marriage and Madness—Caddy’s Independence Through Sexuality, Marriage, and Maternity
Elaina Mellott, Taylor University
Faculty Sponsor: Nancy Dayton, Taylor University

Seas of Salvation: Venus, St Mary, and Hawthorne’s Pearl
Cassandra Striegle, Ball State University
Faculty Sponsor: Donald Gilman, Ball State University

The Nonexistent Woman
Ashley Taber, Purdue North Central
Faculty Sponsor: Heather Fielding, Purdue University North Central

3:00 p.m. – 4:15 p.m.  ENGLISH LITERATURE & CREATIVE WRITING 13  Jordan Hall 340

Moderator: Brynnar Swenson

Expanding the Artistic Canopy: Rhoda as Artist in Virginia Woolf’s The Waves
Kelsey Tabbert, Purdue University North Central
Faculty Sponsor: Heather Fielding, Purdue University North Central

Fact vs Imagination in Virginia Woolf’s Orlando: A Biography
Hayley Morris, Purdue University North Central
Faculty Sponsor: Heather Fielding, Purdue University North Central

Virginia Woolf’s Construction of Light: Symbolism and the Stream of Consciousness in The Waves, The Years, and To the Lighthouse
Meghan Davis, Purdue North Central
Faculty Sponsors: Heather Fielding and Jane Rose, Purdue North Central

Woolf and Modernism: Time Passes into the New Woman
Maria Sol Simms, Purdue North Central
Faculty Sponsor: Heather Fielding, Purdue University North Central
1:30 p.m. – 2:45 p.m.  
GENDER, WOMEN’S, & SEXUALITY STUDIES 1  
Jordan Hall 174

Moderator: Kristen Hoerl

Abortion
Grace Beight, Grace College
Faculty Sponsor: Paulette Sauders, Grace College

Is God Afraid of Women’s Hair?: Religious Discourses and Cultural Practices of Maintaining Women’s Hair in the Middle East and the West
Candace Ginn, University of Arkansas - Fayetteville
Faculty Sponsor: Sarwar Alam, University of Arkansas - Fayetteville

Homosexuality
Jared Comfort, Indiana Wesleyan University
Riley Tangeman, Indiana Wesleyan University
Maggie Lengacher, Indiana Wesleyan University
Faculty Sponsor: Katti Sneed, Indiana Wesleyan University

Dress for Success: How Women, the Corporate Ladder Climb, and Professional Attire are Related
Alicia Helfrich, Butler University
Faculty Sponsor: Dacia Charlesworth, Butler University

3:00 p.m. – 4:15 p.m.  
GENDER, WOMEN’S, & SEXUALITY STUDIES 2  
Jordan Hall 174

Moderator: Irune del Rio Gabiola

Judging Women on Appearance: Evaluation of Trustworthiness and Competency Based on Cosmetics
Amy Geders, Huntington University
Sam Barrett, Huntington University
Corrine Kauffman, Huntington University
Faculty Sponsor: Rebekah Benjamin, Huntington University

Attitude Differences Among Male and Female Indiana Wesleyan University Students Towards Dating Violence
Jessica Warner, Indiana Wesleyan University
Amanda Vinters, Indiana Wesleyan University
Emily Bender, Indiana Wesleyan University
Faculty Sponsor: Katti Sneed, Indiana Wesleyan University

Young Adults’ Sexual Attitudes and Behaviors
Micayla Severns, Indiana Wesleyan University
Sara Fahlmark, Indiana Wesleyan University
Faculty Sponsor: Katti Sneed, Indiana Wesleyan University
9:30 a.m. – 10:45 a.m.  HISTORY 1  Jordan Hall 236

Memories are Made of This: Shifting Fortunes of Identity and Memory

Moderator: Vivian Deno

Crafting Industrial Manhood in the Manual Training Movement, 1876-1920
James Rick, Butler University
Faculty Sponsor: Vivian Deno, Butler University

“Are You With Us?”: A Study of Hoosier Suffragists from 1900-1920
Sarah Bowman, Butler University
Faculty Sponsor: Vivian Deno, Butler University

Origin(s) of the Modern LGBTQ Movement
Kimbra Shaner, Butler University
Faculty Sponsor: Vivian Deno, Butler University

9:30 a.m. – 10:45 a.m.  HISTORY 2  Jordan Hall 238

Imagining America in War and Peace

Moderator: Antwain Hunter

Virginia: On the Backs of Horses
Anneliese Brincks, Taylor University
Faculty Sponsor: Steve Messer, Taylor University

God’s Reaper
Angela Hall, Purdue University North Central
Faculty Sponsor: Heather Fielding, Purdue University North Central

Photography and the Dead of the Civil War
Emily Brokaw, Taylor University
Faculty Sponsor: Steve Messer, Taylor University

Preserving Identity Through Adversity: The Germans from Russia
Jayne Reinhiller, Taylor University
Faculty Sponsor: Alan Winquist, Taylor University

Taking Out The Gibraltar Of The West: Union Strategy In The Western Front
Louis Cutrona, Taylor University
Faculty Sponsor: Steve Messer, Taylor University
**11:00 a.m. – 12:15 p.m.**  
**HISTORY 3**  
Jordan Hall 236

**Between the State and the Individual: Violence, Power, and the State**

**Moderator:** Vivian Deno

**Imprisoning Sexuality: The Abuses of the State in Gay Male Incarceration at Alcatraz Federal Penitentiary**  
**Vic Overdorf**, Butler University  
Faculty Sponsor: **Vivian Deno**, Butler University

**Massacre on the Western Frontier: Retribution or Murder?**  
**Caitlin Recard**, Taylor University  
Faculty Sponsor: **Steve Messer**, Taylor University

**Starving for Attention: The Power of Hunger Strikes as Political Weapons**  
**Miren Mohrenweiser**, Butler University  
Faculty Sponsor: **Vivian Deno**, Butler University

**Equal Representation**  
**Nyree Modisette**, Butler University  
Faculty Sponsor: **Richard McGowan**, Butler University

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**1:30 p.m. – 2:45 p.m.**  
**HISTORY 4**  
Jordan Hall 236

**Globalization and the Long Waves of History**

**Moderator:** Zachary Scarlett

**The Waves of Swedish Americanization**  
**Robert Jakubczyk**, Purdue University  
Faculty Sponsor: **David Atkinson**, Purdue University

**Soviet Joads: The American Migration to the Soviet Union during the 1930s**  
**Alphonse Joseph Mosse’ IV**, Taylor University  
Faculty Sponsor: **Steve Messer**, Taylor University

**I like Money… Until it Kills People**  
**Hannah Martin**, Butler University  
**William Doolittle**, Butler University  
Faculty Sponsors: **Zachary Scarlett** and **Elise Edwards**, Butler University
### HISTORY 5

**3:00 p.m. – 4:15 p.m.**

**HISTORY 5**

**Jordan Hall 236**

**War and Empire in the Making of History**

Moderator: **Zachary Scarlett**

**Manifest Empire: Race and American Imperial Aspirations in the Pacific**

* Bryan Richter, Butler University  
  Faculty Sponsor: **Zachary Scarlett**, Butler University

**Pacific Horizons: The Transformation of European Perceptions of Paradise, 1880-1900**

* Luke Scalone, Butler University  
  Faculty Sponsor: **John Cornell**, Butler University

**The Revolution on the High Seas: The Workers of the World United Under the Jolly Roger**

* Steven Melter, Taylor University  
  Faculty Sponsor: **Steve Messer**, Taylor University

**Keep On Producing: How Censorship and Propaganda Shaped Within the Pellet Press and KOP Target Shaped the Perception of the Kingsbury Ordnance Plant**

* Michael Buckman, Butler University  
  Faculty Sponsor: **Vivian Deno**, Butler University

### INTERNATIONAL STUDIES

**1:30 p.m. – 2:45 p.m.**

**INTERNATIONAL STUDIES**

**Jordan Hall 225**

**Moderator: Eloise Sureau-Hale**

**Assessing the Social Impact of Tourism in Oman: The case of Misfat Al-Abreyeen**

* Amira Al-Mujaizi, Sultan Qaboos University  
  Rasha Al-Azri, Sultan Qaboos University  
  Faculty Sponsor: **Hamed Al-Azri**, Sultan Qaboos University

**The Influence of Religion on the Legal Status of Active Euthanasia and Assisted Suicide in the European Union**

* Ruthann Gorrell, Marian University  
  Faculty Sponsor: **Pierre Atlas** and **Kim Vogt**, Marian University
9:30 a.m. – 10:45 a.m.  MATHEMATICS & COMPUTER SCIENCE 1  Jordan Hall 203

Mathematics: Blaschke, Betting, and Boxes

Moderator: Rebecca Wahl

A Blaschke-Factor Bifurcation Locus
  Jesse Allen, Butler University
  Faculty Sponsor: William Johnston and Scott Kaschner, Butler University

A Computational and Explicit Exploration of the St Petersburg Paradox
  Alexander Olivero, Butler University
  Faculty Sponsor: William Johnston, Butler University

Row Standard Young Tableau: The Two Row Case
  Priyanka Prasad, Butler University
  Faculty Sponsor: Amber Russell, Butler University

11:00 a.m. – 12:15 p.m.  MATHEMATICS & COMPUTER SCIENCE 2  Jordan Hall 203

Computer Science: Brain, Lasers and Tango!

Moderator: Rebecca Wahl

GuideDawg: An iPhone App for the Blind and Visually Impaired
  Jacob Scheib, Butler University
  Devin Edmundowicz, Butler University
  Brandon Weber, Butler University
  Faculty Sponsor: Panos Linos, Butler University

Methods for Generating Three Dimensional Point-Clouds with LIDAR Laser Technology
  Alex LeClair, Indiana University South Bend
  Chad Morton, Indiana University South Bend
  Faculty Sponsor: James Wolfer, Indiana University South Bend

Tango: A Spanish Based Programming Language
  Ashley Zegiestowsky, Butler University
  Faculty Sponsor: Jon Sorenson, Butler University
9:30 a.m. – 10:45 a.m. MODERN LANGUAGES 1 Jordan Hall 278

Hispanic Identity

Moderator: Elisa Lucchi-Riester

Mestizaje and Identity Conflict
Esthepanie Rendon, Franklin College
Faculty Sponsor: Dan Alsop, Franklin College

Accepting Biculturalism and Finding a Personal Identity
Michelle Murphy, Franklin College
Faculty Sponsor: Sara Colburn-Alsop, Franklin College

Hispanic vs Latino: A Survey of Hispanic Identity and Beliefs
Ashley Johnson, Ball State University
Faculty Sponsor: Colleen Balukas, Ball State University

Spanish Globalization: Dissolving negative Hispanic Stereotypes
Jared Knotts, Ball State University
Faculty Sponsor: Colleen Balukas, Ball State University

Survive or Thrive: Analyzing the Importance of Education and Stable Relationships in the Lives and Development of Children
Olivia Beaman, Franklin College
Faculty Sponsor: Kathryn Johnston, Franklin College

11:00 a.m. – 12:15 p.m. MODERN LANGUAGES 2 Jordan Hall 278

South America

Moderator: Gabriela Muniz

El pensamiento eurocentrista e independentista de Sarmiento y Bello
Nicole Bell, Hanover College
Faculty Sponsor: Eduardo Santa Cruz, Hanover College

Alfonsina Storni: The Reinvention of Modernism to Include the Female Voice
Khadijetou Oualet Abdourahmane, Franklin College
Faculty Sponsor: Sarah Colburn Alsop, Franklin College

Edgar Allan Poe en la Literatura Hispanoamericana
Ileana Correa, Hanover College
Faculty Sponsor: Eduardo Santa Cruz, Hanover College

Un Momento Corto Pero Feliz: Forming Literary Liberty
Nathan Bode, Wabash College
Faculty Sponsor: Ivette Wilson, Wabash College

La Niña de sus Ojos, Social Reform or Social Exile
Regina Solik, Franklin College
Faculty Sponsor: Daniel Alsop, Franklin College
German Movies, Music, and More

Moderator: Melissa Etzler

Sounds From Within: Music and the Kuleschow Effect in the Film The Wall
Brianna Bean, Butler University
Faculty Sponsor: Melissa Etzler, Butler University

A Scrooge in the Stasi? Unlikely Parallel Transformations in A Christmas Carol and The Lives of Others
Marissa Schoedel, Butler University
Faculty Sponsor: Melissa Etzler, Butler University

Youth Without God: The Mob Mentality of Germany’s Children in “Jugend Ohne Gott” and “Das Weiße Band”
Kayla Nienhaus, Butler University
Faculty Sponsor: Melissa Etzler, Butler University

Sonata of a City
Quinn McKenzie, Butler University
Faculty Sponsor: Melissa Etzler, Butler University

Rosario Castellanos

Moderator: Liliana Torres-Goens

A Search for Identity and Belonging: Does it exist in Balún Canán?
Conner McNeely, Franklin College
Faculty Sponsor: Jarrod Brown, Franklin College

Dependent and Abandoned: Abjection in Rosario Castellanos’s Balún Canán
Mia Taskey, Franklin College
Faculty Sponsor: Jarrod Brown, Franklin College

Oppression and its Power in Relationships Between the Nanny and Protagonist in Balún Canán
Jennifer Sgalski, Franklin College
Faculty Sponsor: Jarrod Brown, Franklin College
MODERN LANGUAGES 5  
Jordan Hall 276

**Gabriel García Marquez**

**Moderator:** Amina Shabani

**The Importance of Isolation: One Hundred Years of Solitude**

*Jared Rich*, Ball State University  
Faculty Sponsor: *Elizabeth Bell*, Ball State University

**The True Meaning of Sadness in Gabriel Garcia Marquez’s “El coronel no tiene quien le escriba”**

*Paige Reisinger*, Franklin College  
Faculty Sponsor: *Agueda Formosa-Mayan*, Franklin College

**“The Others of Society” in Gabriel Garcia Marquez’s Chronicle of a Death Foretold**

*Daniel Harvey*, Franklin College  
Faculty Sponsor: *Agueda Formosa-Mayan*, Franklin College

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MODERN LANGUAGES 6  
Jordan Hall 278

**Spain**

**Moderator:** Linda Willem

**Behind the Mask: A Look at the Representations of Homosexuality in Lorca’s “The Public”**

*Dylan Miller*, Wabash College  
Faculty Sponsor: *Ivette Wilson*, Wabash College

**The Animal Within**

*Frank Davis*, Franklin College  
Faculty Sponsor: *Daniel Alsop*, Franklin College

**Las mujeres Becquerianas: La dualidad entre la mujer perfecta y la mujer demoníaca**

*Erin Johnston*, Ball State University  
Faculty Sponsor: *Stephen Hessel*, Ball State University

**Luis de Góngora and Garcilaso de la Vega: Exploring the Danger of Deceiving Language**

*Cameron Melchior*, Ball State University  
Faculty Sponsor: *Stephen Hessel*, Ball State University

**Cervantes, El Celoso Extremeño, and Stockholm Syndrome**

*Grace Cebalt*, Ball State University  
Faculty Sponsor: *Stephen Hessel*, Ball State University
9:30 a.m. – 10:45 a.m.  MUSIC 1  Lilly Hall 120

The 20th Century

Moderator: James Briscoe

- Debussy and Mallarmé: Reinventing Rhythm through Speech and Song
  Natalie Farrell, Butler University
  Faculty Sponsor: James Briscoe, Butler University

- Negotiating Gender through Musical Motives in Kaija Saariaho’s “Adriana Mater”
  Jacob Bullock, Butler University
  Faculty Sponsor: Jeff Gillespie, Butler University

- “The Soul of Our Wounded Homeland:” A Representation of Poulenc’s World War II France
  Chloe Boelter, Butler University
  Faculty Sponsor: James Briscoe, Butler University

- The Pedal Board (Guitar Effect Chains)
  Jesse May, Butler University
  Faculty Sponsor: Nicholas Johnson, Butler University

11:00 a.m. – 12:15 p.m.  MUSIC 2  Lilly Hall 120

Expanding Musical Languages and Techniques

Moderator: Nicholas Johnson

- Facing the Fermata: Recreating the Classical Cadenza in Modern Performances of Mozart’s Flute Concerti
  Natalie Farrell, Butler University
  Faculty Sponsor: Nicholas Johnson, Butler University

- Flute Repertoire: Pedagogical Conclusions
  Teresa Richard, Eastern Illinois University
  Faculty Sponsor: Rebecca Johnson, Eastern Illinois University

- Ground-Breaking Dissonance in the Grosse Fuge
  Marty Meyer, Butler University
  Faculty Sponsor: Nicholas Johnson, Butler University

- Taking Pride in True Englishness: The Catch and Glee’s Foundation of Success
  Carol Weirich, Butler University
  Faculty Sponsor: Nicholas Johnson, Butler University
1:30 p.m. – 2:45 p.m.  MUSIC 3  Lilly Hall 120

Theoretical Approaches to Music

Moderator: James Briscoe

Music of the Mind: Biographical Illuminations of a Complex Psyche in Dominick Argento’s “From the Diary of Virginia Woolf”
Symantha Ballensky, Butler University
Faculty Sponsor: Jeffrey Gillespie, Butler University

Music Speaks Louder Than Words: Unity in Gustav Holst’s “Hammersmith”
Jacob Bullock, Butler University
Faculty Sponsor: James Briscoe, Butler University

I Know I Heard Something: Audio People Arguing Over Whether You Can Really Hear Ultrasonic Frequencies
Phillip Tock, Butler University
Faculty Sponsor: Cutler Armstrong, Butler University

3:00 p.m. – 4:15 p.m.  MUSIC 4  Lilly Hall 120

New Approaches to Baroque Music

Moderator: Nicholas Johnson

Back to the Baroque: Examining Baroque Theaters to Create Authentic Modern Performances
Christopher Cranston, Butler University
Faculty Sponsor: Nicholas Johnson, Butler University

Baroque Emotion: An Insight on Learned Responses to Music
Julian Orem, Butler University
Faculty Sponsor: Nicholas Johnson, Butler University

Vivaldi’s Seasons: Harmony Challenges Invention
Sandy An, Butler University
Faculty Sponsor: Nicholas Johnson, Butler University

Tempering the Tempering of Bach’s Well-Tempered Clavier
Taylor Galloway, Butler University
Faculty Sponsor: Nicholas Johnson, Butler University

Syncopation and Sex: Othering via Baroque and Classical Music as a Political Tool against the Ottoman Empire
Phillip Tock, Butler University
Faculty Sponsor: Nicholas Johnson, Butler University
Moderator: Lauren Czosnowski

Assessment of Butler University College of Pharmacy and Health Science’s New Integrated Pharmacy Coursework
Alex Coulter, Butler University
Matt Bills, Butler University
Faculty Sponsor: Trish Devine, Butler University

“Music First”: An Interprofessional Study of the Effect of Patient-Preferred Music as a Nonpharmacological Alternative or Adjunct to Medications for Behavioral and Psychological Symptoms of Dementia
Danielle Stone, Butler University
Alexander Cairns, Butler University
Faculty Sponsor: Dane Shiltz, Butler University

A Cross-Sectional Study to Evaluate Pharmacy Students’ Knowledge and Confidence of Self-Care Topics
Rachel Wilden, Butler University
Anna Ventimiglia, Butler University
Kelsa Reynolds, Butler University
Faculty Sponsors: Sheel Patel and Heather Folz, Butler University

A Systematic Review Evaluating Reporting Quality in Randomized Controlled Trials Involving Hepatitis C Agents—Quantifying Adherence to the 2010 Consolidated Standards of Reporting Trials (CONSORT) Statement
Ian Ray, Butler University
Faculty Sponsors: Amy Peak and Jason Range, Butler University

An Evaluation of the Safety, Efficacy, and Pharmacoeconomics of Two Valganciclovir Prophylaxis Regimens Following Renal Transplantation
Rachel Hoffman, Butler University
Maggie Thomas, Butler University
Faculty Sponsor: Jane Gervasio, Butler University
9:30 a.m. – 10:45 a.m.  
PHARMACY, HEALTH SCIENCES, & EXERCISE SCIENCE 2
Pharm. & Health Sci. Bldg. 103

Moderator: Alex Ansara

The Effect of Aspartame on Glucose Regulation
  Maggie Huffer, Hanover College
  Faculty Sponsor: Bryant Stamford, Hanover College

Andi, Chase, and the Mysterious Case: An Interdisciplinary Children’s Book on the Importance of
  Antimicrobial Stewardship
  Sandra Bai, Butler University
  Brooke Maag, Butler University
  Faculty Sponsor: Erin Albert, Butler University

An Assessment and Proposal of Medical Writing Across US Schools of Pharmacy: Leadership, Self-Awareness
and Interest in Further Curricular Expansion
  Katie Kieffer, Butler University
  Nichole Szczerekowski, Butler University
  Faculty Sponsor: Erin Albert, Butler University

Assessing Knowledge of OTC Pain Medications in Freshmen and Seniors on a College Campus
  Hannah Townsend, Butler University
  Madeline Barga, Butler University
  Alexandra Scott, Butler University
  Katie Morrow, Butler University
  Faculty Sponsor: Sheel Patel, Butler University

9:30 a.m. – 10:45 a.m.  
PHARMACY, HEALTH SCIENCES, & EXERCISE SCIENCE 3
Pharm. & Health Sci. Bldg. 106B

Moderator: Jennifer McCann

Impact of Spot Cooling during Exercise in a Thermohostile Environment
  Meghan Fox, Hanover College
  Faculty Sponsor: Bryant Stamford, Hanover College

Evaluating the Use of Intravenous Immune Globulin (IVIG) and Traditional Therapy for Treating Clostridium
Difficile in a Community Health System
  Daniel Makutonin, Butler University
  Nicholas Neulieb, Butler University
  Faculty Sponsor: Jarrett Amsden, Butler University

Empiric Use of Beta-Lactams in Pediatric Patients with Methicillin-Susceptible Staphylococcus Aureus
  Bacteremia
  Sarah Ferry, Butler University
  Wendy Yin, Butler University
  Alexandria Arends, Butler University
  Faculty Sponsors: Chad Knoderer and Kristen Nichols, Butler University

Direct Oral Anticoagulant Drug Utilization Review and Process Improvement in the Emergency Department
Observation Unit: A Retrospective Chart Review and Process Improvement with Subsequent Chart Review
  Leslie Wooten, Butler University
  Faculty Sponsor: Chad Knoderer, Butler University

Effects of Light Intensity on Running Economy
  Teresa Wiczynski, Hanover College
  Faculty Sponsor: Molly Winke, Hanover College
Moderator: Tracy Costello

A Classroom Simulation to Demonstrate the Impact of Multitasking on Student Pharmacists
  Katie Keirn, Butler University
  Faculty Sponsor: Stephanie Enz, Butler University

Cross Education of Hand and Finger Strength as a Possible Rehabilitation Mechanism
  Dani Shipley, Hanover College
  Faculty Sponsor: Molly Winke, Hanover College

Cannabis - A Literature Review
  Seth Schmitt, Butler University
  Faculty Sponsor: Laurence Kennedy, Butler University

Your Brain on Nutrients
  Bailey Regier, Purdue North Central
  Faculty Sponsor: Heather Fielding, Purdue North Central

Moderator: Kendra Damer

Assessing Knowledge of OTC Pain Medications in Freshmen and Seniors on a College Campus I
  Katie Morrow, Butler University
  Hannah Townsend, Butler University
  Madeline Barga, Butler University
  Faculty Sponsor: Sheel Patel, Butler University

Assessment of Prescriber Perspectives on Antibiotic Resistance Following the Implementation of a Poster Campaign
  Paige Watkins, Butler University
  Faculty Sponsors: Chad Knoderer and Kristen Nichols, Butler University

Assessment of Pharyngitis Management at a University Student Health Services Clinic
  Abbey MacAllister, Butler University
  Tanya Abi-Mansour, Butler University
  Faculty Sponsors: Chad Knoderer and Kristen Nichols, Butler University

Determining Stroke Guideline Adherence in the Treatment of Ischemic Stroke in a Central Indiana Hospital
  Wesley Wright, Butler University
  Faculty Sponsor: Kevin Tuohy, Butler University

Perceptions of Health and Nutrition
  Rachel Walters, Indiana Wesleyan University
  Brittany Ogden, Indiana Wesleyan University
  Shelby O’Brien, Indiana Wesleyan University
  Faculty Sponsor: Katti Sneed, Indiana Wesleyan University
Moderator: Dennis Gardner

Assessment of Postoperative Blood Transfusion Requirements in Elective Orthopedic Surgery Patients
  Kristina McAtee, Butler University
  Morgan Peterson, Butler University
  Jennifer Lamonica, Butler University
  Faculty Sponsors: Sarah Nisly and Taylor Steuber, Butler University

Assessing the Significance and Perception of the Medication Therapy Consultant (MTC) Position on the Butler University Community Outreach Pharmacy (BUCOP)
  Eric Gregory, Butler University
  Brian Howard, Butler University
  Evan Zahn, Butler University
  Faculty Sponsor: Jeanne Van Tyle, Butler University

Compliance with the American Heart Association/American Stroke Association Clinical Practice Guidelines for the Management of Patients with Acute Ischemic Stroke in Indiana University Health Methodist Hospital: A Retrospective Chart Review Study
  Thinh Duong, Butler University
  Faculty Sponsor: Kevin Tuohy, Butler University

Clinical Impact of Extensive Medication Education and Prescription Procurement Assistance on 30-Day Outcomes in Post-Acute Coronary Syndrome Patients
  Thomas Alvey, Butler University
  Grayson Eckert, Butler University
  Faculty Sponsor: Alexander Ansara, Butler University

Moderator: Joseph Jordan

Comparing the Sales of Smoking Cessation Products Before and After the Ban of Cigarette Sales in CVS Pharmacies
  Emily Persohn, Butler University
  Alexis Merkley, Butler University
  Faculty Sponsor: Annette McFarland, Butler University

Effects of an Extreme Negative Caloric Balance and Resistance Training on Body Composition
  Hanna Foster, Hanover College
  Faculty Sponsor: Bryant Stamford, Hanover College

The Accountable Care Pharmacist: A Guide to Delivering Health Care in a Changing Environment (Research for and Writing of a Course Textbook)
  Cory Hellems, Butler University
  Joseph Dunn, Butler University
  Faculty Sponsor: Carriann Smith, Butler University

Descriptive Review of Considerations for Medication Procurement, Inventory Management, and Formulary Adjustment at a Student-Run, Professionals-Advised Outreach Clinic
  Daniel Peterson, Butler University
  Faculty Sponsor: Jeanne Van Tyle, Butler University

Assessment of Pharyngitis Management at a University Student Health Services Clinic
  Kari Wisher, Butler University
  Stephanie O'Brien, Butler University
  Faculty Sponsors: Chad Knuderer and Kristen Nichols, Butler University
Moderator: **Carrie Jung**

**Comparison of Antibiotic Dosing Before and After Implementation of an Electronic Order Set**
- **Allison Gritzman**, Butler University
  - Faculty Sponsors: **Chad Knoderer** and **Kristen Nichols**, Butler University

**Correlation and Impact of Pharmacist Intervention(s) on Diabetes, Dyslipidemia, and Hypertension Related Outcomes at a Worksite Clinic**
- **Rachel Steele**, Butler University
  - Faculty Sponsor: **Jessica Wilhoite**, Butler University

**Clinical Outcomes Based on Antibiotic Prescribing for Healthcare-Associated and Community Acquired Pneumonia**
- **Lindsey Hodgen**, Butler University
  - Faculty Sponsor: **Lindsay Saum**, Butler University

**Creation and Evaluation Of An Online Education Program To Measure And Improve Professionalism Among Pre-Pharmacy Students**
- **Craig Fisher**, Butler University
  - Faculty Sponsor: **Meghan Bodenberg**, Butler University

**Comparing Cefazolin and Ceftriaxone for Treatment of Cystitis**
- **Ainsley Paton**, Butler University
  - Faculty Sponsor: **Lindsay Saum**, Butler University

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Moderator: **Laurence Kennedy**

**Evaluation of Risk Factors for COPD Hospital Readmission**
- **Andrea Stark**, Butler University
  - **Sarah Fitzpatrick**, Butler University
  - Faculty Sponsors: **Lindsay Saum** and **Alison Walton**, Butler University

**Effects of Pre-workout Supplements Containing Different Doses of Caffeine on Anaerobic Threshold and Maximum Volume of Oxygen Consumption During a Cycling Test**
- **Christopher Ares**, Hanover College
  - **Matthew Powers**, Hanover College
  - Faculty Sponsor: **Molly Winke**, Hanover College

**Ambulatory Care Clinical Pharmacy Services in Indiana**
- **Austin Smith**, Butler University
  - Faculty Sponsors: **Jessica Trboletti** and **Jessica Wilhoite**, Butler University

**Creation and Evaluation of an Online Study Tool for Cancer Chemotherapy Medicinal Chemistry Concepts**
- **Jamie Urbanik**, Butler University
  - **Samantha Dudman**, Butler University
  - **Lindsey Will**, Butler University
  - Faculty Sponsor: **Kim Beck**, Butler University

**Effect of a Personalized Diabetes Action Plan in Patients with Elevated Hemoglobin A1cs**
- **Derek Getz**, Butler University
  - Faculty Sponsor: **Deborah Zeitlin**, Butler University
### PHARMACY, HEALTH SCIENCES, & EXERCISE SCIENCE 1

**Moderator:** Laura Ruekert

The Incidence of Loose Stools with Nimodipine Oral Formulations within the IU Health System  
- **Tim Cosman**, Butler University  
- **Adam Dobis**, Butler University  
- **Andrew Hardiek**, Butler University  
- **Phillip Schroeder**, Butler University  
  Faculty Sponsor: **Joseph Jordan**, Butler University

The Impact of Patient Education Cards on Patient Understanding and Compliance with their Heart Failure Medication Regimen  
- **Lauren Rohan**, Butler University  
- **Lauren Need**, Butler University  
  Faculty Sponsor: **Lauren Azmanowski**, Butler University

The Effect of Cross Education to Impact Hamstring Muscle  
- **Victoria Wilson**, Hanover College  
  Faculty Sponsor: **Bryant Stamford**, Hanover College

Supplemented discharge through Pharmacy as a Preventative Readmission Tactic (SUPPoRT)  
- **Allison Boyd**, Butler University  
- **Erica Little**, Butler University  
- **Meredith Stefanik**, Purdue University  
- **Elizabeth Neumann**, Purdue University  
  Faculty Sponsors: **Carrie Jung, Jessica Trboletti**, and **Todd Walroth**, Butler University

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### PHARMACY, HEALTH SCIENCES, & EXERCISE SCIENCE 11

**Moderator:** Annette McFarland

Risk factors Associated with Nonadherence to Antiretroviral Therapy in HIV-Infected Patients  
- **Dragana Grbic**, Butler University  
- **Alexis Clark**, Butler University  
- **Melody Berg**, Butler University  
- **Eric Farmer**, Butler University  
  Faculty Sponsor: **Chad Knoderer**, Butler University

Empiric Use of Beta-Lactams in Pediatric Patients with Methicillin-Susceptible Staphylococcus Aureus Bacteremia  
- **Sarah Ferry**, Butler University  
- **Wendy Yin**, Butler University  
- **Alexandria Arends**, Butler University  
  Faculty Sponsors: **Chad Knoderer** and **Kristen Nichols**, Butler University

Energy Cost of Water Treadmill Exercise  
- **Anne-Spicer Adams**, Hanover College  
  Faculty Sponsor: **Bryant Stamford**, Hanover College

Implementing a Program to Educate Independent Seniors on the Management of Cough, Cold, and Flu  
- **Matthew Tran**, Butler University  
- **Matthew Krzywosz**, Butler University  
  Faculty Sponsors: **Tracy Sprunger** and **Amy Lenell**, Butler University
The Effect of Appropriate Empiric Antibiotic Therapy on the Clinical Results of Patients with Urinary Tract Infections and Pyelonephritis in the Inpatient Setting

Nicholas Vermillion, Butler University
Caroline Hedrick, Butler University
Christian Cheatham, Butler University
Megan Fleming, Butler University
Faculty Sponsor: Chad Knoderer, Butler University

The Effect of Sensory Integration Therapy on Balance

Kaitlin McDonald, Hanover College
Faculty Sponsor: Bryant Stamford, Hanover College

Pharmacist’s Involvement in Resuscitation of Acute Burn Patients in the Emergency Department

Zach Moon, Butler University
Steven Miller, Butler University
Faculty Sponsor: Todd Walroth, Butler University

Pharmacy Student Perceptions of Care Plan and Progress Note Assignments

Radha Patel, Butler University
Faculty Sponsor: Kendra Damer, Butler University

Vancomycin Dosing and Monitoring in the Treatment of Cystic Fibrosis

Kaci Kreilein, Butler University
Radha Patel, Butler University
Faculty Sponsor: Chad Knoderer, Butler University

Farnesol Use in Pancreatic Cancer Cells

Jessica Giaquinto, Butler University
Faculty Sponsor: Pamela Crowell, Butler University

Factors that Impact the Validity of Bod Pod Measurements

Rachel Smith, Hanover College
Faculty Sponsor: Bryant Stamford, Hanover College

The Effects of Upper Body Concentric and Eccentric Contractions with moderate pBFR on Muscle Strength and Hypertrophy

Timothy Gerking, Hanover College
Faculty Sponsor: Molly Winke, Hanover College

Incidence of Symptomatic Venous Thromboembolism After Hospital Discharge of Critically Ill Patients Receiving Enoxaparin Prophylaxis

Krista Noll, Butler University
Sarah Krusenoski, Butler University
Faculty Sponsors: Jennifer McCann and Sarah Hittle, Butler University

Financial and Educational Impact of Investing in Future Pharmacists

Lauren Brodeur, Butler University
Faculty Sponsor: Cathy Ramey, Butler University
Moderator: **Sarah Nisly**

**Evaluation of Pharmacist Education on Health Related Numbers**  
**Ryan Carter**, Butler University  
**Changyeon Lee**, Butler University  
Faculty Sponsor: **Alison Walton**, Butler University  

**Exacerbation Rates of Veteran Patients Diagnosed with COPD in the Primary Care Setting**  
**Whitney Hooten**, Butler University  
**Lauren Hirons**, Butler University  
**Molly Radford**, Butler University  
Faculty Sponsor: **Darin Ramsey**, Butler University  

**Food for the Mind, Body, and Spirit Wellness Fair for Butler University Faculty and Staff**  
**Alexa Lankhaar**, Butler University  
Faculty Sponsor: **Jane Gervasio**, Butler University  

**Evaluating Treatment Regimens for Schizophrenia and Their Effect On 30-day Readmission**  
**Kailey Meadows**, Butler University  
Faculty Sponsors: **Laura Ruekert** and **Brittany Parmentier**, Butler University  

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Moderator: **Cathy Ramey**

**Promoting Leadership Involvement in P1 Students**  
**Samantha Chapin**, Butler University  
**Candi Cain**, Butler University  
Faculty Sponsor: **Meghan Bodenberg**, Butler University  

**Reactive Hyperemia in Isotonic versus Isometric Resistance Exercise**  
**Wesley Rittman**, Hanover College  
Faculty Sponsor: **Bryant Stamford**, Hanover College  

**High-Throughput Screening Assay for HSF Inhibitors**  
**Jenna Hebbe**, Butler University  
**Dan Williams**, Butler University  
Faculty Sponsor: **Alexandre Erkine**, Butler University  

**Extended Infusion Piperacillin-Tazobactam versus Extended Infusion Cefepime in Febrile Neutropenia Patients**  
**Grant Cooper**, Butler University  
**Hanna Corey**, Butler University  
Faculty Sponsors: **Chad Knoderer** and **Jill Leslie**, Butler University  

**Ralphie the Giraffe and the Insulin Pump Adventure: An Interdisciplinary Children’s Book with a Focus on Type I Diabetes and Insulin Pump Therapy**  
**Amber Ordaz**, Butler University  
**Meghan Robbins**, Butler University  
Faculty Sponsor: **Erin Albert**, Butler University  

Moderator: David Reeves

Extended Infusion Piperacillin-Tazobactam versus Extended Infusion Cefepime in Febrile Neutropenia Patients
  Grant Cooper, Butler University
  Hanna Corey, Butler University
  Faculty Sponsors: Chad Knoderer and Jill Leslie, Butler University

Implementing a Program to Educate Independent Seniors on the Management of Cough, Cold, and Flu
  Matthew Tran, Butler University
  Matthew Krzywosz, Butler University
  Faculty Sponsors: Tracy Sprunger and Amy Lenell, Butler University

Retrospective Analysis of Probiotic Effectiveness in Acute Myeloid Leukemia and Transplant Patients Receiving Chemotherapy
  Daniel Przybylski, Butler University
  Faculty Sponsor: David Reeves, Butler University

Health Inspections in Restaurants: Are They Working?
  Brittany Fourman, Grace College
  Faculty Sponsor: Paulette Sauders, Grace College

Moderator: Alison Walton

Impact of Inspiratory and Expiratory Resistance on the Energy Cost of Exercise
  Hannah Palmer, Hanover College
  Faculty Sponsor: Bryant Stamford, Hanover College

Medication List Accuracy One Year Post Medication Reconciliation and the Impact on Patient Safety
  Alyssa Kmet, Butler University
  Kelli Conner, Butler University
  Faculty Sponsors: Jessica Wilhoite and Amanda Place, Butler University

Food/Drug Interactions: Assessing Student Knowledge Before and After Viewing an Interactive Educational Website
  Cole Smith, Butler University
  Anthony Ton, Butler University
  Faculty Sponsor: Jane Gervasio, Butler University

Impact of Pharmacist Intervention on 30 day Readmission Rates in Patients with Chronic Obstructive Pulmonary Disease
  Lauren Iles, Butler University
  Ali Goodman, Butler University
  Brittany Larson, Butler University
  Faculty Sponsor: Emily Papineau, Butler University
Moderator: Deborah Zeitlin

The Efficacy of Antidepressants in Alleviating Anhedonia in Depressed Patients
Paras Patel, Butler University
Faculty Sponsor: Chad Knoderer, Butler University

The Effect of Cardiovascular Exercise on Reactive Hyperemia
Cody Hatfield, Hanover College
Faculty Sponsor: Bryant Stamford, Hanover College

The Cost of Treating Cancer Patients with Antineoplastic Medications During Inpatient Hospital Admission
Alexandra Foster, Butler University
Faculty Sponsor: Dave Reeves, Butler University

Geriatric and Student Perceptions on Education to Improve Memory, Sleep & Arthritis Pain
Kayla Goodwine, Butler University
Thomas Fehn, Butler University
Faculty Sponsors: Sarah Nisly and Lindsay Saum, Butler University

The Incidence of Loose Stools with Nimodipine Oral Formulations within the IU Health System
Tim Cosman, Butler University
Adam Dobis, Butler University
Andrew Hardiek, Butler University
Phillip Schroeder, Butler University
Faculty Sponsor: Joseph Jordan, Butler University

Moderator: Brent Hege

Religion, Spirituality, and the Great Pumpkin

The Impact of Higher Education on Undergraduate College Students’ Religiosity
Josie Scott, Valparaiso University
Ellie Propper, Valparaiso University
Katelyn Caragher, Valparaiso University
Faculty Sponsor: Matthew Ringenberg, Valparaiso University

Spirituality: A Look at the Current State of Spiritual Well-Being in Indiana Wesleyan University Students
Hannah Hirschy, Indiana Wesleyan University
Mia Benker, Indiana Wesleyan University
Logan Garfield, Indiana Wesleyan University
Faculty Sponsor: Katti Sneed, Indiana Wesleyan University

“If You Really are a Fake, Don’t Tell Me”: Resowing Plantinga’s Great Pumpkin
Leon Mire, Eastern Illinois University
Faculty Sponsor: Dannie Otto, Eastern Illinois University
3:00 p.m. – 4:15 p.m.  PHILOSOPHY & RELIGION 2  Jordan Hall 348

Philosophy in Politics and Film

Moderator: Harry van der Linden

The New American Revolution: Creating an Economic Democracy
Alec Stubbs, Butler University
Faculty Sponsor: Harry van der Linden, Butler University

Intellectual and Moral Development: Character Analysis
Connor Brooks, Butler University
Faculty Sponsor: Richard McGowan, Butler University

The 20th Century Hero and Beyond: Campbell’s Ideas of Myth and Adventure in Apocalyptic Film
Caitlin Ladd, Butler University
Faculty Sponsor: Richard McGowan, Butler University

“If Only You Could See What I’ve Seen With Your Eyes”: On Personhood in Blade Runner
Cody Hendershot, Purdue North Central
Faculty Sponsor: Heather Fielding, Purdue North Central

9:30 a.m. – 10:45 a.m.  PHYSICS & ASTRONOMY  Gallahue Hall 106

Moderator: Gonzalo Ordonez

Creation of Entangled Electron Pairs Along Separate Leads in the Anderson Model
Jackson O’Brien, Butler University
Faculty Sponsor: Gonzalo Ordonez, Butler University

The First Multi-Color Photometric Study of the Short-Period Contact Eclipsing Binary DE Lyn
Amanda Hashimoto, Butler University
Faculty Sponsor: Xianming Han, Butler University

Rolling Polygonal Prisms with Granular Materials
Phillip Ingalls, Indiana State University
Faculty Sponsor: Joseph West, Indiana State University
1:30 p.m. – 2:45 p.m.  

**POLITICAL SCIENCE 1**  
Pharm. & Health Sci. Bldg. 150

**Politics and Popular Culture**

*Moderator: Siobhan McEvoy-Levy*

**Popular Culture and Political Activism: Are Harry Potter and The Hunger Games That Special?**  
*Sam Thomas*, Butler University  
Faculty Sponsor: *Siobhan McEvoy-Levy*, Butler University

**Celebrityism and Pop Culture**  
*Grady Brock*, Butler University  
Faculty Sponsor: *Siobhan McEvoy-Levy*, Butler University

**Cultural Imperialism: A Case Study of Magical Creatures and The Ministry of Magic in JK Rowling’s Harry Potter Tales**  
*Joel Fuller*, Butler University  
Faculty Sponsor: *Siobhan McEvoy-Levy*, Butler University

**Warrior Katniss in A Present Past: Analyzing The Hunger Games’ History**  
*Connor Flynn*, Butler University  
Faculty Sponsor: *Siobhan McEvoy-Levy*, Butler University

1:30 p.m. – 2:45 p.m.  

**POLITICAL SCIENCE 2**  
Pharm. & Health Sci. Bldg. 156

**Globalization, Popular Culture, and Public Policy**

*Moderator: Craig Auchter*

**Harry Potter and the Deathly Climate Change Crisis**  
*Ellen Rowley*, Butler University  
Faculty Sponsor: *Siobhan McEvoy-Levy*, Butler University

**Incorporating Mental Health into the Concept of “Self-Sufficiency”: Investigating Access to Mental Health Care for Burmese Refugees in Indianapolis**  
*Megan Day*, Butler University  
Faculty Sponsor: *Su-Mei Ooi*, Butler University

**The Price of Partisanship: The Lives and Dollars Lost in the Quest for Coverage Expansion**  
*Madison Howard*, Butler University  
Faculty Sponsor: *Terri Jett*, Butler University

**Remus Lupin and Infection; HIV/AIDS in Popular Culture**  
*Shawn Becker*, Butler University  
Faculty Sponsor: *Siobhan McEvoy-Levy*, Butler University
### The Politics of Identity

**Moderator:** Courtney Rousseau

**Albus Dumbledore, Homosexuality, and LGBTQ Acceptance in the United States**  
*Ben Morrical*, Butler University  
Faculty Sponsor: *Siobhan McEvoy-Levy*, Butler University

**Albus Dumbledore, Homosexuality, and LGBTQ Acceptance in the United States**  
*Ben Morrical*, Butler University  
Faculty Sponsor: *Siobhan McEvoy-Levy*, Butler University

**Behind Every Great Man Is An Even Greater Woman: Gender Identity Within Harry Potter**  
*Katelyn Sussli*, Butler University  
Faculty Sponsor: *Siobhan McEvoy-Levy*, Butler University

**Behind Every Great Man Is An Even Greater Woman: Gender Identity Within Harry Potter**  
*Katelyn Sussli*, Butler University  
Faculty Sponsor: *Siobhan McEvoy-Levy*, Butler University

**The Politics of Stereotypes in Harry Potter**  
*Timothy Parthun*, Butler University  
Faculty Sponsor: *Siobhan McEvoy-Levy*, Butler University

**The Politics of Stereotypes in Harry Potter**  
*Timothy Parthun*, Butler University  
Faculty Sponsor: *Siobhan McEvoy-Levy*, Butler University

### Youth, Education, and Peacebuilding

**Moderator:** Siobhan McEvoy-Levy

**The Political Dimensions of Dance: The Viability of Dance as a Tool for Generating Conflict Awareness and Peacebuilding in the Context of the Arab-Israeli Conflict**  
*Alexandra Zaslav*, Butler University  
Faculty Sponsors: *Derek Reid* and *Siobhan McEvoy-Levy*, Butler University

**The Political Dimensions of Dance: The Viability of Dance as a Tool for Generating Conflict Awareness and Peacebuilding in the Context of the Arab-Israeli Conflict**  
*Alexandra Zaslav*, Butler University  
Faculty Sponsors: *Derek Reid* and *Siobhan McEvoy-Levy*, Butler University

**Movement Exchange: Unleashing the Untapped Peacebuilding Power of Dance and Movement**  
*Julia Lloyd*, Butler University  
Faculty Sponsor: *Siobhan McEvoy-Levy*, Butler University

**Movement Exchange: Unleashing the Untapped Peacebuilding Power of Dance and Movement**  
*Julia Lloyd*, Butler University  
Faculty Sponsor: *Siobhan McEvoy-Levy*, Butler University

**Intergenerational Conflict and Gatekeeping of Adults**  
*Delaney Foreman*, Butler University  
Faculty Sponsor: *Siobhan McEvoy-Levy*, Butler University

**Intergenerational Conflict and Gatekeeping of Adults**  
*Delaney Foreman*, Butler University  
Faculty Sponsor: *Siobhan McEvoy-Levy*, Butler University

**Defense Against Political Agendas**  
*Bianca McManus*, Butler University  
Faculty Sponsor: *Siobhan McEvoy-Levy*, Butler University

**Defense Against Political Agendas**  
*Bianca McManus*, Butler University  
Faculty Sponsor: *Siobhan McEvoy-Levy*, Butler University
3:00 p.m. – 4:15 p.m.     POLITICAL SCIENCE 5     Pharm. & Health Sci. Bldg. 156

The Politics of Human Rights

Moderator: Craig Auchter

Harry Potter and Human Rights: Fictional Justice Vs Reality

Kyleigh Beeker, Butler University
Faculty Sponsor: Siobhan McEvoy-Levy, Butler University

“Become the Hero of Your Story”: How Fandom Became an Important Tool in the Fight for Human Rights and Equality

Kelly Coleman, Butler University
Faculty Sponsor: Siobhan McEvoy-Levy, Butler University

After the Battle: An English School Perspective on the International Implications of the Battle of Antietam and the Emancipation Proclamation

Wilson Alexander, Taylor University
Faculty Sponsor: Steve Messer, Taylor University

Gaining Identity: The Geopolitics of Humans of New York

Molly McLoughlin, Butler University
Faculty Sponsor: Siobhan McEvoy-Levy, Butler University

3:00 p.m. – 4:15 p.m.     POLITICAL SCIENCE 6     Pharm. & Health Sci. Bldg. 202

Understanding Terrorism

Moderator: Courtney Rousseau

Understanding Terrorism: Harry Potter, The Hunger Games and the Syrian Refugee Crisis

James Lardin, Butler University
Faculty Sponsor: Siobhan McEvoy-Levy, Butler University

Weapons of Magic Destruction: A Look at the Effects of Terrorism on the Wizzarding World

Kyle Lang, Butler University
Faculty Sponsor: Siobhan McEvoy-Levy, Butler University

The Ba’athist Elements of Da’esh (ISIS)

Dina Abdalla, DePaul University
Faculty Sponsor: Scott Hibbard, DePaul University
9:30 a.m. – 10:45 a.m.  PSYCHOLOGY 1  Gallahue Hall 101

Health & Sexuality I

Moderator: R. Brian Giesler

**Priming Health Goals and their Impact on Food Choice**
- Paige Freund, Butler University
- Fran Kay, Butler University
  Faculty Sponsor: R. Brian Giesler, Butler University

**Sleep Quality and Theory of Mind**
- Julie Erwin, Butler University
  Faculty Sponsor: Joel Martin, Butler University

**Does Homophobia Involve Self-Disgust?**
- Shelby Eaton, Butler University
- Kristen Haberlein, Butler University
  Faculty Sponsor: R. Brian Giesler, Butler University

**Attitudes Towards Masturbation: Examining Sexual Desire**
- Rahissa Engle, Ball State University
  Faculty Sponsor: George Gaither, Ball State University

9:30 a.m. – 10:45 a.m.  PSYCHOLOGY 2  Gallahue Hall 102

Industrial-Organizational Psychology

Moderator: Alison O’Malley

**Being “Green” in the Restaurant Industry: Examining Organizational Citizenship Behavior of the Environment, Job Crafting, & Flourishing**
- Alexandria Deno, Butler University
  Faculty Sponsor: Alison O’Malley, Butler University

**Further Examining Implicit Person Theory and Feedback Environment in Undergraduate Mentor Relationships**
- Allison White, Butler University
- Jacob Wolfarth, Butler University
  Faculty Sponsor: Alison O’Malley, Butler University

**Finding Theatrical Truth through Acting Styles**
- Jackson Pollock, Hanover College
  Faculty Sponsor: Stephen Dine Young, Hanover College

**Resume Study**
- Jacob O’Brien, Purdue University North Central
  Faculty Sponsor: Hui Chu, Purdue University North Central
9:30 a.m. – 10:45 a.m.  PSYCHOLOGY 3  Gallahue Hall 105

Perceptions of Ourselves

Moderator: Tara Lineweaver

Who Am I? The Effects of Medications on Self Perceptions of Young Adults with ADHD
  Jhovana Cervantes, Butler University
  Alexandra Gabor, Butler University
  Faculty Sponsors: Suneeta Kercood and Tara Lineweaver, Butler University

“I Know You Are, But What Am I?” Memory Self-Perceptions of Children with Epilepsy are More Accurate Than Those of Their Parents
  Megan Fishbaugh, Butler University
  Madison Horth, Butler University
  Faculty Sponsor: Tara Lineweaver, Butler University

The Impact of Racial Identity, Parental Support, Self-Esteem, Mastery, and Teacher Discrimination on Moderate and High Achieving Black Adolescents
  Heather Scriven, Hampton University
  Faculty Sponsor: Leona Johnson, Hampton University

Looking Hot, Feeling Hot: An Exploration of the Relationship Between Self-Perception and Temperature
  Emma White, Indiana Wesleyan University
  Leslie Barnett, Indiana Wesleyan University
  Faculty Sponsor: Erin Devers, Indiana Wesleyan University

11:00 a.m. – 12:15 p.m.  PSYCHOLOGY 4  Gallahue Hall 101

Social Media & Technology

Moderator: Robert Dale

Cell Phone Use and Romantic Relationships
  Ye In Park, Huntington University
  Lindsey Czernicki, Huntington University
  Sonya Lawrence, Huntington University
  Sadye Weible, Huntington University
  Derek Beckler, Huntington University
  Faculty Sponsor: Rebekah Benjamin, Huntington University

Communication Technology’s Impact on Social Interactions
  Brianna Burns, Hanover College
  Emily Bowen, Hanover College
  Faculty Sponsor: Bill Altermatt, Hanover College

Student Success: The Intersection of Noncognitive Domains and Smartphones
  Alexandra Alayan, Indiana Wesleyan University
  Kelsey Evey, Indiana Wesleyan University
  Olivia Hayes, Indiana Wesleyan University
  Micah Brown, Indiana Wesleyan University
  Faculty Sponsors: Christopher Devers, Doug Daugherty, Timothy Steenbergh, and Jason Runyan, Indiana Wesleyan University

The Representation of Relationships on Social Media and Relationship Satisfaction
  Molly Mescher, Hanover College
  Faculty Sponsor: Stephen Dine Young, Hanover College
Religion & Spirituality

Moderator: Amanda Gingerich

Are the Religious Better at Resisting Temptation?
Taryn Ahmed, Butler University
Kristen Haberlein, Butler University
Faculty Sponsor: R. Brian Giesler, Butler University

The Impact of Mindfulness Meditation on Students’ Creativity
Paige Poure, Butler University
Natalie Nusinow, Butler University
Faculty Sponsor: R. Brian Giesler, Butler University

Mindfulness Over Memory: The Effects of Meditation on False Memory Formation
Payton Wright, Butler University
Lili O’Donnell, Butler University
Faculty Sponsor: Amanda Gingerich, Butler University

Too Tired to Help: A Quantitative Study on Spirituality, Compassion Satisfaction, Compassion Fatigue, and Secondary Trauma among Practicing Social Workers
Molly Isenberg, Indiana Wesleyan University
Faculty Sponsor: Katti Sneed, Indiana Wesleyan University

Perceptions of Others

Moderator: Robert Padgett

Native English Speakers’ Perceptions of Language Learners
Jill Crane, Marian University
Faculty Sponsor: Jeff Kellogg, Marian University

Attitudes Toward Sex Offenders
Stephanie Davidsen, Ball State University
Faculty Sponsor: George Gaither, Ball State University

Eye Contact and Memory
Shannon Kiley, Saint Joseph’s College
Faculty Sponsor: Mark Seely, Saint Joseph’s College

Acting: Expressing Emotional Regulation
Korby Quan Reed, Hanover College
Faculty Sponsor: Katherine Tuttle, Hanover College

Open and Shut! Openness to Experience Exerts Little Influence on Older Adults’ Memory Beliefs
Sydney Coates, Butler University
Shelbi Tidd, Butler University
Tara Lineweaver, Butler University
Faculty Sponsor: Tara Lineweaver, Butler University
1:30 p.m. – 2:45 p.m.  PSYCHOLOGY 7  Gallahue Hall 101

Development of Human and Non-Human Animals

Moderator: Joel Martin

An Ex Situ African Elephant Calf Behaves Like Calves In Situ
  Julia Machado, Butler University
  Alex Haddon, Butler University
  Faculty Sponsor: Robert Dale, Butler University

Multiple Gaits in African Elephant Calves
  Kathryn Larimore, Butler University
  Faculty Sponsor: Robert Dale, Butler University

Value Persistence: Undergraduate Development
  Marissa Ray, Hanover College
  Madison Filar, Hanover College
  Faculty Sponsor: Bill Altermatt, Hanover College

Effect of Parents’ Intelligence Beliefs on their Children’s Intelligence Beliefs
  Rachel Bowling, Hanover College
  Carly McCay, Hanover College
  Abigail McGohon, Hanover College
  Faculty Sponsors: Ellen Altermatt and Katherine Tuttle, Hanover College

1:30 p.m. – 2:45 p.m.  PSYCHOLOGY 8  Gallahue Hall 102

Academic Performance & Achievement

Moderator: Robert Padgett

Test-wiseness Training Improves Immediate Performance
  Kathryn Kincaid, Butler University
  Faculty Sponsor: Robert Padgett, Butler University

Perceived Peer Acceptance and Parental Involvement in Education as Predictors of Academic Success
  Rachel Henderson, Anderson University
  Faculty Sponsor: Laura Stull, Anderson University

The Effects of Time Perspective on Procrastination
  Trent Downs, Hanover College
  Jared Richardson, Hanover College
  Faculty Sponsor: Bill Altermatt, Hanover College

First Impressions Matter: Examining Gender & Racial Bias in Teaching
  Stefanie Nanney, Purdue University North Central
  Faculty Sponsors: Heather Fielding and Hui Chu, Purdue University North Central
1:30 p.m. – 2:45 p.m.  PSYCHOLOGY 9  Gallahue Hall 105

Learning & Intelligence

Moderator: Amanda Gingerich

Background Music: A Psychological Learning Tool

Amanda Brown, Purdue North Central
Faculty Sponsor: Cynthia Zdanzyk, Purdue North Central

Multitasking and Academic Performance

Rebekah Zimmerman, Huntington University
Caylan DeLucia, Huntington University
Samantha Bruns, Huntington University
Brooke Ewing, Huntington University
Faculty Sponsor: Rebekah Benjamin, Huntington University

Using Smartphones to Increase Learning

Alexandra Alayan, Indiana Wesleyan University
Emily Ragsdale, Indiana Wesleyan University
Olivia Hayes, Indiana Wesleyan University
Mackenzie Cook, Indiana Wesleyan University
Kelsey Evey, Indiana Wesleyan University
Garret Cobb, Indiana Wesleyan University
Faculty Sponsors: Erin Devers and Christopher Devers, Indiana Wesleyan University

Female Professor’s Hair Length and Its Effects on Students’ Learning and Perceptions of Competence, Personality, Preparedness, and Physical Appearance

Kendall Ladd, Butler University
Faculty Sponsor: Amanda Gingerich, Butler University

1:30 p.m. – 2:45 p.m.  PSYCHOLOGY 10  Gallahue Hall 106

Compliance, Persuasion, & Conformity

Moderator: R. Brian Giesler

Fear then Relief Technique: Manipulating Groups into Compliance

Nathaniel Roth, Huntington University
Faculty Sponsor: Rebekah Benjamin, Huntington University

Foot-in-the-door Technique

Christiana Hicks, Huntington University
Marcos Salinas, Huntington University
Andrew Cherry, Huntington University
Jonathan VanDuyne, Huntington University
Faculty Sponsor: Rebekah Benjamin, Huntington University

Gender Differences in Conformity to Group Behavior

Aaron George, Goshen College
Olivia Ginn, Goshen College
Faculty Sponsor: Julie Reese, Goshen College

The Red Shift

Sarah Poe, Saint Joseph’s College
Faculty Sponsor: Mark Seely, Saint Joseph’s College
Disorders & Treatment

Moderator: **Tara Lineweaver**

If You’re Happy, Do They Know It? Parkinson’s Disease Differentially Affects Recognition of Various Emotions
- **Colleen Frank**, Butler University
- **Emily Flandermeyer**, Butler University
  Faculty Sponsor: **Tara Lineweaver**, Butler University

Examining Eye Movement Desensitization and Reprocessing
- **Tiffany Briesacher**, Purdue North Central
  Faculty Sponsors: **Kimberly Brunt** and **Heather Fielding**, Purdue North Central

Incorporating New Methodologies in Drug Abuse Therapy
- **Jeremy Diederich**, Purdue North Central
  Faculty Sponsor: **Heather Fielding**, Purdue North Central

Parental Chronic Illness as a Predictor of Anxiety and Depression in College Students
- **Sara Wetter**, Anderson University
  Faculty Sponsor: **Laura Stull**, Anderson University

All theFeels

Moderator: **Alison O’Malley**

Emotional Predications & Feedback: How Do They Make a Time-Managing Student Feel?
- **Serena Daley**, Butler University
- **Emily Chamberlain**, Butler University
  Faculty Sponsor: **Alison O’Malley**, Butler University

Empathy and Intended Career Path
- **Lucas Morgan**, Butler University
  Faculty Sponsor: **Alison O’Malley**, Butler University

Football Players Getting Tackled, CEOs Getting Shackled: Schadenfreude, Deservingness, and the Publicity of Failure
- **Kaitlin Welch**, Hanover College
- **Hannah Wehmeyer**, Hanover College
  Faculty Sponsor: **John Krantz**, Hanover College

Why Do We Love Pixar? The Effect of Personification on In-the-Moment Sympathy
- **Elizabeth Stine**, Hanover College
- **Matthew Brown**, Hanover College
  Faculty Sponsor: **Stephen Dine**, Young Hanover College

An Experience Sampling Study of Compassion and Flourishing in Everyday Life
- **Kristen Dunbar**, Indiana Wesleyan University
  Faculty Sponsor: **Jason Runyan**, Indiana Wesleyan University
3:00 p.m. – 4:15 p.m.  PSYCHOLOGY 13  Gallahue Hall 101

Social Interactions & Relationships

Moderator: Robert Dale

Retrograde Memory Effects in Dating Simulation: Calm Guys Remembered Least
  Kathryn Kincaid, Butler University
  Faculty Sponsor: John Neil Bohannon, Butler University

Beauty Meets the Heart: A Look Into Dating Preferences While Physically Unstable
  Raquel Dunkman, Indiana Wesleyan University
  Faculty Sponsor: Erin Devers, Indiana Wesleyan University

The Effect of Couples’ Gender Role Attitudes on Affect During a Problem-Solving Task
  Monica Lamirand, Hanover College
  Jordan Shoemaker, Hanover College
  Faculty Sponsor: Ellen Altermatt, Hanover College

The Role of Communication and Emotional Support in College Couples’ Relationship Satisfaction
  Alison Hanlein, Hanover College
  Alex Looney, Hanover College
  Faculty Sponsor: Stephen Dine Young, Hanover College

3:00 p.m. – 4:15 p.m.  PSYCHOLOGY 14  Gallahue Hall 102

Music, Emotion, & Memory

Moderator: Robert Padgett

The Effects of Emotion on Retrograde Memory
  Brett DeWitt, Butler University
  Jessica Dupree, Butler University
  Faculty Sponsor: John Neil Bohannon, Butler University

Hay What’s That Smell? The Effects of Barn Associated Odors on Equestrians and Non-Equestrians
  Kathryn Kirkham, Butler University
  Faculty Sponsor: Robert Padgett, Butler University

Auditory and Visual Memory of Musicians and Non-musicians
  Emily Fellows, Hanover College
  Faculty Sponsor: John Krantz, Hanover College

Priming and Memory: The Effects of Body Position, A Type of Body Language Priming, on Memory of Affectively Connotated Words
  Jessica Davila, Goshen College
  Michael Nivens, Goshen College
  Amber Mosley, Goshen College
  Faculty Sponsors: Julie Reese and Amanda Sensenig, Goshen College
3:00 p.m. – 4:15 p.m.  PSYCHOLOGY 15  Gallahue Hall 105

Memory, Attention, & Learning

Moderator: Amanda Gingerich

Exercise Effects on Memory: Visual vs Verbal
Kathryn Larimore, Butler University
Avery Charron, Butler University
Faculty Sponsor: John Neil Bohannon, Butler University

Effects of a Moving Cue on Inhibition of Return at Long Stimulus Onset Asynchronies
Daniel Evans, Butler University
Amanda Rosenfeld, Butler University
Faculty Sponsor: Amanda Gingerich, Butler University

Effects of Gender Stereotype Activation on Recognition Memory in Romantic Couples
Rebecca Robbins, Butler University
Hanna Downs, Butler University
Amanda Rosenfeld, Butler University
Faculty Sponsor: Amanda Gingerich, Butler University

Reading Comprehension with Distractions
Cassandra Simone, Hanover College
Aleesha Simone, Hanover College
Faculty Sponsor: John Krantz, Hanover College

3:00 p.m. – 4:15 p.m.  PSYCHOLOGY 16  Gallahue Hall 106

Health and Sexuality II

Moderator: R. Brian Giesler

Feeling Good when Adopting Goals: The Power of Positive Affect
Katie Koschnick, Butler University
Josh Braun, Butler University
Faculty Sponsor: R. Brian Giesler, Butler University

To Think or Not to Think: What’s Better When Adopting Goals?
Hannah Faccio, Butler University
Paige Poure, Butler University
Faculty Sponsor: R. Brian Giesler, Butler University

Gender Role Conflict & Rape Myth Acceptance
VJ Billups, Hanover College
Brianna Cherry, Hanover College
Faculty Sponsors: Ellen Altermatt and Bill Altermatt, Hanover College

Alcohol Consumption and Perception
Rachel Beretta, Hanover College
Faculty Sponsor: Kati Tuttle, Hanover College
Parents, Children, & Families

Moderator: Tara Lineweaver

Parent Over Shoulder: The Extracurricular Influences on Elementary Student Achievement
Scott Collins, Butler University
Faculty Sponsor: Tara Lineweaver, Butler University

Personality Types Among Siblings
Laura Sigworth, Huntington University
Melanie Clemens, Huntington University
Susanna Vining, Huntington University
Hailey Konger, Huntington University
Faculty Sponsor: Rebekah Benjamin, Huntington University

Social and Emotional Learning Skills of Elementary-Aged Children
Courtney Armacost, Purdue University North Central
Faculty Sponsors: Hui Chu and Heather Fielding, Purdue University North Central

The Influence of Sibling Toy Sharing on Gender Schema
Julia Brunnemer, University of Indianapolis
Faculty Sponsor: Greta Pennell, University of Indianapolis

Seeking Happiness

Moderator: Allison O’Malley

Impact of Mandala Coloring on Stress in Nursing Students
Zach Herber, Huntington University
Jennifer Ballinger, Huntington University
Allyson Trout, Huntington University
Faculty Sponsor: Rebekah Benjamin, Huntington University

The Social Motivation of Humor: Conflict
Lisa Wilks, Hanover College
Libby Bower, Hanover College
Faculty Sponsor: Kati Tuttle, Hanover College

Finding the Will and a New Way for Enhancing Hope: Using a Smartphone App to Deliver Positive Interventions
Ethen Smith, Indiana Wesleyan University
Emma White, Indiana Wesleyan University
Martha Kondrat, Indiana Wesleyan University
Faculty Sponsor: Doug Daugherty, Indiana Wesleyan University

The Relationships between Coping Mechanism Choices and Life Satisfaction
Meagan McCarver, Valparaiso University
Tim Standiford, Valparaiso University
Ashley Heisey, Valparaiso University
Faculty Sponsor: Matthew Ringenberg, Valparaiso University
9:30 a.m. – 10:45 a.m.  SOCIOLOGY 1  Jordan Hall 242

**College Students’ Lives**

Moderator: **Katherine Novak**

A Cross-Sectional Study of Exercise Motivations, Frequency of Exercise, and Self-Esteem among Undergraduate Students

*Amber Fulton*, Butler University  
Faculty Sponsor: **Katherine Novak**, Butler University

The Association Between Objective and Subjective Integration and Self-Esteem Across College Grade Levels: A Cross-Sectional Study

*Kelly Bryant*, Butler University  
Faculty Sponsor: **Katherine Novak**, Butler University

Factors Related to High Risk Drinking and Subsequent Alcohol-Related Consequences Among College Students

*Courtney Hittepole*, Butler University  
Faculty Sponsor: **Katherine Novak**, Butler University

Racial Perceptions on Butler University’s Campus: An Exploration of Occupational Status Through Students’ Eyes

*Zoe Cottom*, Butler University  
Faculty Sponsor: **Katherine Novak**, Butler University

An Exploration of Butler Students Understanding of and Experiences with Police Profiling

*Dennis Cho*, Butler University  
Faculty Sponsor: **Katherine Novak**, Butler University

9:30 a.m. – 10:45 a.m.  SOCIOLOGY 2  Jordan Hall 276

**Social Issues**

Moderator: **Antonio Menendez Alarcon**

Kosciusko County Welfare Study

*Melissa Sorensen*, Grace College  
Faculty Sponsor: **Paulette Sauders**, Grace College

Perceptions of Diabetes in Grant County

*Chelsea Crowl*, Indiana Wesleyan University  
*Devin Daugherty*, Indiana Wesleyan University  
*Gabrielle Blickley*, Indiana Wesleyan University  
Faculty Sponsor: **Katti Sneed**, Indiana Wesleyan University

Perceptions of Crime in Grant County

*Charly Brown*, Indiana Wesleyan University  
*Rachel Mendenhall*, Indiana Wesleyan University  
*Madisen Rodarte*, Indiana Wesleyan University  
Faculty Sponsor: **Katti Sneed**, Indiana Wesleyan University

Substance Abuse

*Sara Irish*, Indiana Wesleyan University  
*Rachael Scanlon*, Indiana Wesleyan University  
*Linnea Rider*, Indiana Wesleyan University  
Faculty Sponsor: **Katti Sneed**, Indiana Wesleyan University

To Attend or Not To Attend: Factors Affecting Sexual Violence Prevention Program Attendance

*Noelle Rich*, Butler University  
Faculty Sponsor: **Katherine Novak**, Butler University
11:00 a.m. – 12:15 p.m.  SOCIOLOGY 3  Jordan Hall 238

**Familial Issues**

Moderator: **Jess Butler**

Family Systems
- **Kaatla Hoiberg**, Indiana Wesleyan University
- **DeAnn Cowell**, Indiana Wesleyan University
- **Kaylie Young**, Indiana Wesleyan University
  
  Faculty Sponsor: **Katti Sneed**, Indiana Wesleyan University

Perceptions of Substance Use on Campus: Variations by Class Standing
- **Jennifer McKiel**, Butler University
  
  Faculty Sponsor: **Katherine Novak**, Butler University

The Significance of Hierarchy in Familial Relationships
- **Christian Herrera**, Huntington University
  
  Faculty Sponsor: **Michael Rowley**, Huntington University

11:00 a.m. – 12:15 p.m.  SOCIOLOGY 4  Jordan Hall 242

**Issues in University Settings**

Moderator: **Katherine Novak**

College Academic Stress and Suicidal Ideation
- **Faith Oliver**, Butler University
  
  Faculty Sponsor: **Katherine Novak**, Butler University

Students’ Perceptions of Campus Police: The Role of Personal and Peer Interactions
- **Cooper Dinges**, Butler University
  
  Faculty Sponsor: **Katherine Novak**, Butler University

Academic Strain and the Nonmedicinal Use of Prescription Drugs among College Students at a Small Midwestern University
- **Michael Conway**, Butler University
  
  Faculty Sponsor: **Katherine Novak**, Butler University

Perceptions of Police Treatment of Athletes Among College Students
- **Michael Demos**, Butler University
  
  Faculty Sponsor: **Katherine Novak**, Butler University

College-age Women: What Influences Eating Disorders?
- **Sarah Hansen**, Valparaiso University
- **Ashlyn Sorrell**, Valparaiso University
- **Maribel Flores**, Valparaiso University
  
  Faculty Sponsor: **Matthew Ringenberg**, Valparaiso University
### International Issues

**Moderator:** Antonio Menendez Alarcon

The Impact of Proximity on Relations Between International and Domestic College Students  
*Stacia Hackmann*, Valparaiso University  
*Danielle McCuan*, Valparaiso University  
*Eleni Kaldis*, Valparaiso University  
Faculty Sponsor: Matthew Ringenberg, Valparaiso University

The Portrayal of Child Soldiers in Documentaries and Hollywood Film  
*Jessica Tassava*, Butler University  
Faculty Sponsor: Katherine Novak, Butler University

Encouraging Death: How the Rwandan Government Encouraged the 1994 Genocide  
*Bridget Peden*, Butler University  
Faculty Sponsor: Vivian Deno, Butler University

### Issues at Home and at Work

**Moderator:** Jess Butler

Working Together: A Quantitative Study on Social Workers Interprofessional Preparedness  
*Samantha Berg*, Indiana Wesleyan University  
Faculty Sponsor: Katti Sneed, Indiana Wesleyan University

The Relationship Between Age, Gender, and Gun Control Attitudes  
*Courtney Reach*, Butler University  
Faculty Sponsor: Katherine Novak, Butler University

The Effects of Paid Family Leave on the Wages of Female Faculty in New England  
*Gabriela Wrobel*, Eastern Connecticut State University  
Faculty Sponsor: Kimberly Dugan, Eastern Connecticut State University
### 1:30 p.m. – 2:45 p.m.  
**SOCIOLOGY 7**  
*Jordan Hall 242*

**Sociology of Education**

Moderator: **Marvin Scott**

The Relationship Between Fraternity Recruitment Experiences, Perceptions of Fraternity Life, and Self-Esteem  
*Kendall Ladd*, Butler University  
Faculty Sponsor: **Katherine Novak**, Butler University

Discovering If After School Programs Help to Improve Educational and Emotional Factors  
*Jordan Dager*, Indiana Wesleyan University  
*Rebecca Gruwell*, Indiana Wesleyan University  
*Hannah Weener*, Indiana Wesleyan University  
Faculty Sponsor: **Katti Sneed**, Indiana Wesleyan University

Students Who Work: The Relationship Between Work and School as Explained by Employed College Students  
*Patrick Smith*, Butler University  
Faculty Sponsor: **Katherine Novak**, Butler University

Fraternity Members’ View on the Enforcement of Alcohol Policies: Does Alcohol Use Matter?  
*Nicole Gibney*, Butler University  
Faculty Sponsor: **Katherine Novak**, Butler University

Core Values and Choice of Major  
*Rebecca Kazdoy*, Valparaiso University  
*Nichol Wilson*, Valparaiso University  
*Elizabeth Seyfert*, Valparaiso University  
Faculty Sponsor: **Matthew Ringenberg**, Valparaiso University

### 3:00 p.m. – 4:15 p.m.  
**SOCIOLOGY 8**  
*Jordan Hall 242*

**Diverse Social Issues**

Moderator: **Marvin Scott**

A Qualitative Exploration of Friendship Formation on the Butler University Campus  
*Sarah Greene*, Butler University  
Faculty Sponsor: **Katherine Novak**, Butler University

Oral Histories and Life Intersections  
*Kaley LaPointe*, Indiana Wesleyan University  
Faculty Sponsor: **Lori Goss-Reaves**, Indiana Wesleyan University

Juvenile Delinquency  
*Jacklin Williams*, Indiana Wesleyan University  
*Ashton Gall*, Indiana Wesleyan University  
*Emily MacNeil*, Indiana Wesleyan University  
Faculty Sponsor: **Katti Sneed**, Indiana Wesleyan University
Moderator: McKenzie Beverage

Coyote Prevalence on Edge of the Farm Conservation Trust based on the Presence of Invasive Honeysuckle  
Jocelynne Samu, Miami University of Ohio  
Taylor Pittard, Miami University of Ohio  
Faculty Sponsors: Hays Cummins and Donna McCollum, Miami University of Ohio

Assessing Microbiome of Historic and Current River Habitats for Eastern Hellbenders (Cryptobranchus alleganiensis alleganiensis) in Southern Indiana  
Ardith Wang, Purdue University  
Obed Hernandez-Gomez, Purdue University  
Faculty Sponsor: Rod Williams, Purdue University

Soil Health within Indianapolis Urban Gardens  
Blake Moskal, Butler University  
Faculty Sponsor: Sean Berthrong, Butler University

Assessing Mitochondrial Population Genetics of the Eastern Box Turtle, Terrapene c. carolina in Indiana  
Montana Campbell, Purdue University  
Rod Williams, Purdue University  
Steven Kimble, Purdue University  
Faculty Sponsors: Rod Williams and Steven Kimble, Purdue University
The number preceding each title indicates the easel number to which each presenter has been assigned. For example, if a “4.” appears before the title of the presentation, the presenter will arrive at the location indicated in the gray bar, identify easel #4, and set up. Volunteers will be available onsite to assist presenters in identifying their correct location.

**8:45 a.m. – 9:45 a.m. ANTHROPOLOGY**

Pharm. & Health Sci. Bldg. Lower Concourse

Floor Manager: **Jason Lantzer**

1. The Emergence of Adolescence in Bioethics and Autonomy
   Nicholas Denney, Butler University
   Faculty Sponsors: Elizabeth Pfeiffer, Butler University

**8:45 a.m. – 9:45 a.m. BIOCHEMISTRY & MOLECULAR BIOLOGY**

Irwin Library, 1st Floor

Floor Manager: **Teresa Williams**

1. An Investigation of the Unique Farming Behavior of Wild *Dictyostelium discoideum* Isolates: Developing a Transformation Protocol to Fluorescently Tag ‘Farmers’ and ‘Non-Farmers’
   Keara Kilbane, Denison University
   Wae Nakayama, Denison University
   Megan VanHorn, Denison University
   Faculty Sponsor: Peter Kuhlman, Denison University

2. Bacterial Alpha Amylase: Investigations In How Nature Does It Better
   Elizabeth Bittermann, Anderson University
   Faculty Sponsor: Kimberly Lyle-Ippolito, Anderson University

3. Deciphering the Mechanism of Glutaminase Splicing in Cancer
   Patrick LaFontaine, Butler University
   Faculty Sponsor: Chioniso Masamha, Butler University

4. Digital Whole Slide Quantitative Image Analysis of TOPO II and P53 in Sarcomas Evaluating both Primary and Lung Metastatic Tumors
   Margaret Strack, Indiana University-Purdue University Indianapolis
   Faculty Sponsor: George Sandusky, Indiana University-Purdue University Indianapolis

5. Do Allele differences between Pseudouridine Synthase 4 of *Candida albicans* lead to distinct functions?
   Caleb Embree, Ball State University
   Ben O’Brien, Ball State University
   Faculty Sponsor: Douglas Bernstein, Ball State University

6. Dynamic Equilibria Studies of FTT258, a Serine Hydrolase from *Francisella tularensis*
   Perry Rabin, Butler University
   Faculty Sponsor: R. Jeremy Johnson, Butler University

7. Global Substrate Specificity of Serine Hydrolases in Mycobacterium Smegmatis
   Braden Bassett, Butler University
   Faculty Sponsor: R. Jeremy Johnson, Butler University
8. Identifying a Predictive Biomarker for Chemotherapy (taxane) in Patients with Metastatic Castration Resistance Prostate Cancer
   **Greg Rothchild**, Indiana University-Purdue University Indianapolis
   **George Sandusky**, Indiana University-Purdue University Indianapolis
   **Constance Temm**, Indiana University-Purdue University Indianapolis
   **Costantine Albany**, Indiana University-Purdue University Indianapolis
   Faculty Sponsor: **George Sandusky**, Indiana University-Purdue University Indianapolis

9. In Gel Enzymatic Activity of Serine Hydrolases from *M. Smegmatis*
   **Heather Hansen**, Butler University
   Faculty Sponsor: **R. Jeremy Johnson**, Butler University

10. Investigating Cross-Talk and Long-Term Changes Involving H3K79 Methylation Following UV Exposure in Saccharomyces Cerevisiae
    **Rachel Hoffman**, Denison University
    Faculty Sponsor: **Jeffrey Thompson**, Denison University

11. Investigation of the Drop in Dimethylated Histone H3 Proteins in *Saccharomyces cerevisiae* After UV Exposure
    **Sarah Higdon**, Denison University
    Faculty Sponsor: **Jeffrey Thompson**, Denison University

12. Metabolic Profiling of *Caulobacter crescentus* for Synthetic Biology Applications
    **Phillip Krueger**, Eastern Illinois University
    **Xaviera Burton**, Eastern Illinois University
    Faculty Sponsor: **Gopal Periyannan**, Eastern Illinois University

13. Method Development for Palmitoylation Detection in Bacterial and Human Cells
    **Arielle Russell**, Butler University
    Faculty Sponsor: **R. Jeremy Johnson**, Butler University

14. No Water, No Problem: How Do Some Animals Survive Drying?
    **Daniel Webster**, Eastern Illinois University
    **Robert Skolik**, Eastern Illinois University
    Faculty Sponsor: **Michael Menze**, Eastern Illinois University

15. Regulation of the Expression and Function of Exchange Protein Directly Activated by cAMP (EPAC) by Hypoxia
    **Erika Kiefer**, Ohio Northern University
    **Lillian Justus**, Ohio Northern University
    **Jessica Shelley**, Ohio Northern University
    Faculty Sponsor: **Mark Olah**, Ohio Northern University

16. Targeting Both Aberrant Metabolism and Cell Proliferation in Cancer Therapy
    **Bettine Gibbs**, Butler University
    Faculty Sponsor: **Chioniso Patience**, Butler University

17. The Effect of Fungal Metabolites on the Doubling Time of Cancer Cells
    **Aaron Baker**, The University of Findlay
    **Taylor Smith**, The University of Findlay
    **Jonathan Mitchell**, The University of Findlay
    Faculty Sponsor: **Michael Edelbrock**, The University of Findlay

18. The Influence of Dopa-TiO2 Nanoparticles on Gene Modulation at the mRNA Level
    **Shelby Martinez**, Harvard University
    Faculty Sponsors: **Gayle Woloschak** and **Ruben Omar-Lastra**, Harvard University

19. The Roles of the Estrogen Receptors in ERK1/2 Activation by Cadmium Chloride and Sodium Arsenite in Human Lung Adenocarcinoma Cells
    **Austin Black**, Bellarmine University
    Faculty Sponsor: **Mary Huff**, Bellarmine University
20. Toward Efficient Chemoenzymatic Syntheses of Sialyl-α-2,3-Lactose/Lactosamine Assisted by a Fluorous-Tag Purification
   **Reyan Coskun**, Indiana University Bloomington
   Faculty Sponsor: **Nikki Pohl**, Indiana University Bloomington

21. Transition Metal Cation Inhibition of *Mycobacterium tuberculosis* Esterase Rv0045c
   **Benjamin Lancaster**, Butler University
   Faculty Sponsors: **Geoffrey Hoops** and **R. Jeremy Johnson**, Butler University

8:45 a.m. – 9:45 a.m.  BIOLOGY 1  Irwin Library, 3rd Floor

Floor Manager: **Lori Moore**

1. A cpDNA Analysis of Ophioglossum s.s. (*Ophioglossaceae*)
   **Leanne Kelley**, Denison University
   **Bryan Margaria**, Denison University
   Faculty Sponsor: **Warren Hauk**, Denison University

2. Assessing Inter and Intra Specific Variation in Sperm Morphology Between Populations of *Sceloporus consobrinus* and *Sceloporus undulatus*
   **Jeanine Messak**, The University of Findlay
   **Dustin Siegel**, The University of Findlay
   **Kevin Gribbins**, University of Indianapolis
   **Stan Trauth**, The University of Findlay
   **Justin Rheubert**, The University of Findlay
   Faculty Sponsor: **Justin Rheubert**, The University of Findlay

3. Cellular-level Differences in Male- and Female-phase Sexually Dimorphic Flowers of *Saponaria officinalis*
   **Lauren Joyal**, University of Indianapolis
   **Jordan Blue**, University of Indianapolis
   Faculty Sponsor: **Sandra Davis**, University of Indianapolis

4. Characterization and Comparison of Oogenesis in *D. melanogaster*, *D. virilis*, and *D. santomea*
   **Julia Wilson**, Butler University
   Faculty Sponsor: **Lindsay Lewellyn**, Butler University

5. Characterizing a Role for the Misshapen Kinase in Growth of the Germline Ring Canals in the Developing Egg Chamber
   **Ashley Kline**, Butler University
   Faculty Sponsor: **Lindsay Lewellyn**, Butler University

6. Characterizing the Mechanism of Misshapen Kinase in the Elongation of the Developing Egg Chamber
   **Tyler Hudgens**, Butler University
   Faculty Sponsor: **Lindsay Lewellyn**, Butler University

7. Chemical Warfare of the Misunderstood: Allelopathy in *Asimina triloba*
   **Katelyn Durbin**, The University of Findlay
   **Bennett Lamczyk**, The University of Findlay
   Faculty Sponsor: **Benjamin Dolan**, The University of Findlay

8. Classification of Antibiotic Properties from Local Soil Microbes and a Screening for Anti-Inflammatory Substances
   **Catherine Wheeler**, Marian University
   **Jocelyne Hanquier**, Marian University
   **Madison McKinney**, Marian University
   Faculty Sponsor: **Colleen Doci**, Marian University
9. Climate Effects on Radial Growth of Ash at Lakeside Laboratory, Iowa
   Kevin Jewett, Ball, State University
   David LeBlanc, Ball State University
   Faculty Sponsor: David LeBlanc, Ball State University

10. Comparison of Soil Invertebrate Communities Beneath Bush Honeysuckle (Lonicera maackii) and
    Ohio Buckeye (Aesculus glabra) Along a Suburban Forest Edge in Northern Kentucky
    David King III, Thomas More College
    Katie Robinson, Thomas More College
    Tori Liles, Thomas More College
    Shannon Galbraith-Kent, Thomas More College,
    Dustin Swanson, Thomas More College
    Faculty Sponsor: Shannon Galbraith-Kent, Thomas More College

11. Determination of the Role of Dreadlocks (Dock) in the Growth of the Germline Ring Canals in the
    Developing Drosophila Egg Chamber
    Olivia Crowe, Butler University
    Faculty Sponsor: Lindsay Lewellyn, Butler University

12. Digital Whole-Slide Imaging and Quantitative Image Analysis of Pancreatic Acinar to Ductal
    Metaplasia in the Development of Pancreatic Adenocarcinoma
    Kaitlyn Engle, Indiana University-Purdue University Indianapolis
    Lisa Kamendulis, Indiana University-Purdue University Indianapolis
    Barbara Hocevar, Indiana University-Purdue University Indianapolis
    Faculty Sponsor: George Sandusky, Indiana University-Purdue University Indianapolis

13. Diurnal Oviposition Timing of Blow Flies and DNA Identification of Early Arrivers
    Jordan Corsolini, Valparaiso University
    Christopher Henning, Valparaiso University
    Jonathan Teresczenko, Valparaiso University
    Faculty Sponsors: Kristi Bugajski and Beth Scaglione-Sewell, Valparaiso University

14. Effect of Endophytes in Physcomitrella Patens on Cellular Respiration During Abiotic Stress
    Michael Danh, Butler University
    Faculty Sponsor: Philip Villani, Butler University

15. Effect of Habitat and Predator Presence on Blow Fly (Diptera: Calliphoridae) Oviposition
    Paula Stoller, Valparaiso University
    Faculty Sponsor: Kristi Bugajski, Valparaiso University

16. Effects of Early Substrate Exposure and Predator Cues on Substrate Selection in Larval African
    Clawed Frogs (Xenopus laevis)
    Jeremy Hollis, Denison University
    Faculty Sponsor: Geoffrey Smith, Denison University

17. Efficacy of Citric Acid and Ultraviolet-C to Reduce Salmonella on Fresh-Cut Cantaloupes and
    Strawberries
    Chen-Hsuan Chiu, Purdue University Calumet
    Hsin-Wen Liang, Purdue University Calumet
    Le Chen, Purdue University Calumet
    Faculty Sponsor: WT Evert Ting, Purdue University Calumet

18. Enterohemorrhagic E. coli
    Rachel Kunnen, Purdue University North Central
    Jasmine Moore, Purdue University North Central
    Faculty Sponsors: Heather Fielding and Lindsay Gielda, Purdue University North Central

19. Estimating the Inbreeding Coefficient in Populations of the Rattlesnake Fern (Botrypus virginianus:
    Ophioglossaceae)
    Hannah Roodhouse, Denison University
    Faculty Sponsor: Warren Hauk, Denison University
| 20. | Genes that Enhance Segregation Distortion  
Sydney Sheltz, Bethel College  
Faculty Sponsor: Janna Mclean, Bethel College |
| 21. | How Does Lindera benzoin Vary Physiologically Across Ohio?  
Connor O’Neill-Dee, Denison University  
Faculty Sponsor: Andrew McCall, Denison University |
| 22. | Inactivation of Listeria monocytogenes Population on Fresh-Cut Cantaloupes and Strawberries by Using Citric Acid and Ultraviolet-C  
Le Chen, Purdue University Calumet  
Hsin-Wen Liang, Purdue University Calumet  
WT Evert Ting, Purdue University Calumet  
Faculty Sponsor: WT Evert Ting, Purdue University Calumet |
| 23. | Investigation of Potential Interactions Between the G-protein Coupled Receptor FSHR-1 and Neuropeptides in Controlling Synaptic Transmission in C. elegans  
Sierra C. Williams, Butler University  
Faculty Sponsor: Jennifer Kowalski, Butler University |
| 24. | Initial Characterization of Plant Pathogen Interactions in Ferns and Fern Allies  
Caitlyn Foye, Butler University  
Faculty Sponsor: Nathanael Hauck, Butler University |
| 25. | Interspecific and Intraspecific Variation of Head Size and Head Shape in Sceloporus undulatus and Sceloporus consobrinus  
Troy Cross, The University of Findlay  
Dustin Siegel, The University of Findlay  
Stanley Trauth, The University of Findlay  
Christopher Murray, The University of Findlay  
Justin Rheubert, The University of Findlay  
Faculty Sponsor: Justin Rheubert, The University of Findlay |
| 26. | Investigation of the Neuronal Functions of the SUMO enzyme UBC-9 in C. elegans  
Victoria Kreyden, Butler University  
Kristen Rush, Butler University  
Morgan Harrison, Butler University  
Faculty Sponsor: Jennifer Kowalski, Butler University |
| 27. | Is C. elegans a Good Model for anthelmintic Drug Discovery/Study?  
Kate Weaver, Bethel College  
Faculty Sponsor: Brian Ellis, Bethel College |
| 28. | Low Doses of Actinomycin D Selectively Inhibit Cancer Cells with Nucleolar Amplification  
Alexander Wetmore, Marian University  
Faculty Sponsor: Colleen Doci, Marian University |
| 29. | Mechanisms Regulating the Interaction of Spinophilin with PSD-95: Implications in Neurodegenerative Disease  
Morrent Thang, Indiana University-Purdue University Indianapolis  
Faculty Sponsor: Brenda Blacklock, Indiana University-Purdue University Indianapolis |
| 30. | Methyltestosterone Alters Sex Determination in the American alligator (Alligator mississippiensis)  
Kelly Wilson, The University of Findlay  
Christopher Murray, The University of Findlay  
Justin Rheubert, The University of Findlay  
Faculty Sponsor: Justin Rheubert, The University of Findlay |
31. Microbiological Evaluation and Distribution of Antibiotic Resistance as Indicators of Accumulating Watershed Effects
   Gina Moschella, The University of Findlay
   Matthew Gecks, The University of Findlay
   Julie Roehmholdt, The University of Findlay
   Rebekkah Friske, The University of Findlay
   Conner Livingston, The University of Findlay
   Faculty Sponsor: Bethany Henderson-Dean, The University of Findlay

32. Microglia Matter in Mending Injured Brains
   Andrea Kirkpatrick, The University of Findlay
   Faculty Sponsor: Kaia Skaggs, The University of Findlay

33. Multi-stressor Effects of PPCPs on *Daphnia magna* Mortality, Reproductive Activity, and Growth
   Scott Zello, Ball State University
   Faculty Sponsor: Melody Bernot, Ball State University

10:45 a.m. – 11:45 a.m.  BIOLOGY 2  Irwin Library, 1st Floor

Floor Manager: Teresa Williams

1. Neurogenesis of Dopaminergic Neurons by Adult Zebrafish in a Model of Parkinson’s Disease
   Brecken Schaller, The University of Findlay
   Faculty Sponsor: Kaia Skaggs, The University of Findlay

2. Ovarian Agenesis: In the View of a Genetic Counselor
   Alejandra Gamez, Purdue North Central
   Faculty Sponsors: Heather Fielding and Vanessa Quinn, Purdue North Central

3. Poor Hand Hygiene by College Students Linked to More Occurrences of Infectious Diseases, Medical Visits, and Absence from Classes
   Kayla Prater, The University of Findlay
   Janis McGill, The University of Findlay
   Crystal Fortuna, The University of Findlay
   Faculty Sponsor: Xu Lu, The University of Findlay

4. Preliminary Histology of the Skin Glands in the Northern Slimy Salamander, *Plethodon glutinosus*
   Jordan Hartley, University of Indianapolis
   Ashley Prickel, University of Indianapolis
   Kevin Gribbins, University of Indianapolis
   Faculty Sponsor: Kevin Gribbins, University of Indianapolis

5. Preliminary Study of Spermatogenesis in the Coachwhip Snake, *Masticophis flagellum*
   Leanne Johns, University of Indianapolis
   Ashley Remy, University of Indianapolis
   Faculty Sponsor: Kevin Gribbins, University of Indianapolis

6. Reproductive Morphology of the American Bullfrog, *Lithobates catesbiana*
   Hanna Cook, The University of Findlay
   Stanley Trauth, The University of Findlay
   Dustin Siegel, The University of Findlay
   Justin Rheubert, The University of Findlay
   Faculty Sponsor: Justin Rheubert, The University of Findlay

7. Road Kill in the Indiana Dunes
   Giesela Pierce, Purdue University North Central
   Faculty Sponsors: Heather Fielding and Vanessa Quinn, Purdue University North Central
8. Seed Rain Availability as Measured Through Seed Traps in Secondary Forest Edges on an Urban-rural Gradient in Greater Cincinnati, OH
   Collin Hartke, Thomas More College
   Laura Felix, Thomas More College
   Faculty Sponsor: Shannon Galbraith-Kent, Thomas More College

9. Spermatid Development with the Testis of the Brown Anole, Anolis sagrei
   Brandy Ploetner, University of Indianapolis
   Faculty Sponsor: Kevin Gribbins, University of Indianapolis

10. Spermatid Development within the Germinal Epithelium of the Red-Eared Slider, Trachemys scripta elegans
    Jordyn Bever, University of Indianapolis
    Taylor Hatch, University of Indianapolis
    Faculty Sponsor: Kevin Gribbins, University of Indianapolis

11. Spermatid ultrastructure within the testis of the Clark’s Spiny Lizard, Sceloporus clarkii
    (Phrynosomatidae)
    Sonal Baidwan, University of Indianapolis
    Marisa Ketchum, University of Indianapolis
    Justin Rheubert, University of Indianapolis
    Kevin Gribbins, University of Indianapolis
    Faculty Sponsor: Kevin Gribbins, University of Indianapolis

12. Spiders of North West Indiana
    Melissa Vinson, Purdue University North Central
    Samantha Janowicz, Purdue University North Central
    Jacob Kurth, Purdue University North Central
    Faculty Sponsors: Heather Fielding and Vanessa Quinn, Purdue University North Central

13. The Effects of Male Head Size on Performance in Intrasexual Competition and Female Mate Selection in Sceloporus undulatus
    Lyndsy Gieche, The University of Findlay
    Christopher Murray, The University of Findlay
    Alison Morey, The University of Findlay
    Dustin Siegel, The University of Findlay
    Justin Rheubert, The University of Findlay
    Faculty Sponsor: Justin Rheubert, The University of Findlay

14. The Effects of Sunfish on Mosquitofish Populations in two Ohio ponds
    Kyle Rose, Denison University
    Faculty Sponsor: Jessica Rettig, Denison University

15. The Effects of the Emerald Ash Borer on the American White Ash of the Withrow Nature Preserve
    Samantha Smith, Thomas More College
    Zachary Neumann, Thomas More College
    Faculty Sponsor: Shannon Galbraith-Kent, Thomas More College

16. The Investigation of SYD-2 as a Potential Substrate of the Anaphase Promoting Complex in Promoting GABA Release at the C. elegans Neuromuscular Junction
    Lauryn Campagnoli, Butler University
    Faculty Sponsor: Jennifer Kowalski, Butler University

17. The Role of Arp2/3 in Ring Canal Development in Drosophila melanogaster
    Marina Tipold, Butler University
    Faculty Sponsor: Lindsay Lewellyn, Butler University

18. The Role of Calcium in Pathogen Defense Response in the Moss Mnium cuspidatum
    Morgan Blake, Butler University
    Faculty Sponsor: Philip Villani, Butler University
19. The Ultrastructure of the *Agkistrodon contortrix* (Southern Copperhead snake) Spermatheca
   Abby Helman, University of Indianapolis
   Amanda Khan, University of Indianapolis
   Faculty Sponsor: Kevin Gribbins, University of Indianapolis

20. Virulence and Regulator Gene Expression in *Bacillus amyloliquefaciens* from Ultra-High Temperature Pasteurized Milk
   Ellen Wagner, Ball State University
   Faculty Sponsor: John McKillip, Ball State University

21. What’s On Your Phone: Microbe Edition
   Salman Qureshi, Butler University
   Sundeep Singh, Butler University
   Shandeep Singh, Butler University
   Faculty Sponsor: Sean Berthrong and Mike Trombley, Butler University

8:45 a.m. – 9:45 a.m. BUSINESS & ECONOMICS

Floor Manager: Jason Lantzer

2. Effective Techniques for Motivating Volunteers
   Justin Kiel, Purdue University North Central
   Faculty Sponsor: E. Anne Christo-Baker, Purdue University North Central

4. Online Communication and Its Impact on Consumer Behavior
   Eric Haywood, Hanover College
   Faculty Sponsor: Valerie Young, Hanover College

8:45 a.m. – 9:45 a.m. CHEMISTRY

Floor Manager: Mikaela Drake

1. A Comparative Study of Manganese Oxide Coatings in a Disturbed Landscape in Rural Kentucky
   Angela Bittner, Taylor University
   Faculty Sponsor: Daniel King, Taylor University

2. A Fresh Centnerszwer – Accessing Inaccessible Quasiracemates
   Jacqueline Spaniol, Eastern Illinois University
   Faculty Sponsor: Kraig Wheeler, Eastern Illinois University

3. Advances in the Development of Druggable Beta-secretase Inhibitor Prodrugs
   Amanda Feagans, University of Evansville
   Faculty Sponsor: Andy Lampkins, University of Evansville

4. Amounts of Nicotine in Nicotine Products
   Karissa Ferguson, Butler University
   Cierra Schmicker, Butler University
   Tyler Schenck, Butler University
   Faculty Sponsor: Anne Wilson, Butler University

5. Antioxidant Capacity of Anthocyanins in Flowers and Fruits
   Zacharias Raptopoulos, University of Indianapolis
   Faculty Sponsor: Levi Mielke, University of Indianapolis

    | Page |
   Luke Gallion, Butler University
   Faculty Sponsor: Michael Samide, Butler University

7. Dihydrofuran Formation from Cyclic Boronic Half Acids
   Jeri Smith, Butler University
   Faculty Sponsor: LuAnne McNulty, Butler University

8. Effects of a Geothermal Stream on a Near by Lake
   Yechan Moon, Taylor University
   Faculty Sponsors: Daniel King and Patricia Stan, Taylor University

9. Electrocatalytic Analysis of Thin Film Carbon Nanodots for Oxygen Reduction
   Clayton Curtis, Manchester University
   Faculty Sponsor: Kathy Davis, Manchester University

10. Effect of Water on the Chemical Residue from Combusted Accelerants
    Kelsey Hood, Thomas More College
    Faculty Sponsor: William Wetzel, Thomas More College

11. Exploring Amino Acid-Derived Scaffolds to Construct “Smart” Therapeutics
    Humza Khan, University of Evansville
    Scott Grady, University of Evansville
    Faculty Sponsor: Andy Lampkins, University of Evansville

12. Exploring the Reactivity of Malononitrile Derivatives with Nitroalkenes
    Natalie Jardell, Ball State University
    Faculty Sponsor: Robert Sammelson, Ball State University

13. Geothermal Output Stream Design: Impacts on Local Water
    Marissa Kneer, Taylor University
    Faculty Sponsor: Daniel King, Taylor University

14. Introducing Computational Chemistry into First-year Undergraduate Lab Curriculum
    Michael Nahrstadt, Taylor University
    Andrew Pemberton, Taylor University
    Faculty Sponsor: Brandon Magers, Taylor University

15. Long-wavelength Photocleavable Protecting Group
    Jennifer Collopy, Ohio Northern University
    Faculty Sponsor: Tevye Celius, Ohio Northern University

    Kyle Carothers, Manchester University
    Faculty Sponsor: Susan Klein, Manchester University

17. Solvent Free Vanadium Mediated Organic Transformations
    Garrett Oberst, Butler University
    Faculty Sponsor: John Esteb, Butler University

18. Stereocontrol via a 1,3-dithiane Group: Auxiliary Performance, Efforts Toward Auxiliary Removal, and Stereochemical Proof
    Katherine Hulsey, University of Evansville
    Faculty Sponsor: Michael Slade, University of Evansville

19. Synthesis of Amine (bisphenolate) Ligands for Titanium Metal Complexes and Polymerization
    Grant Allbritten, Ohio Northern University
    Faculty Sponsor: Amelia Anderson-Wile, Ohio Northern University
20. Synthesis of Metal-POCOP Pincer Catalysts for Transfer Hydrogenation of Biomass-Derived Substrates
   Ethan Lehmann, University of Evansville
   Faculty Sponsor: Todsapon Thananathanachon, University of Evansville

   Nicholas Dale, Eastern Illinois University
   Evan Olson, Eastern Illinois University
   Faculty Sponsors: Richard England and Gopal Periyannan, Eastern Illinois University

22. Using the Tollen’s Reaction to Create Substrates for Surface-Enhanced Raman Spectroscopy
   Allison Kitson, Trine University
   Faculty Sponsor: Anthony Layson, Trine University

8:45 a.m. – 9:45 a.m.  COMMUNICATION & MEDIA STUDIES  Irwin Library, 2nd Floor

Floor Manager: Rusty Jones

1. Power and Authority in the Language of Novice Writing Center Tutors
   Sarah Evans, Indiana University-Purdue University Indianapolis
   Faculty Sponsor: Susan Shepherd, Indiana University-Purdue University Indianapolis

2. A Study of the Sisterly Relationship and Media Representations of its Communication Components: Are They Accurate Enough to be Emulated in Real Life?
   Brittany Gingerich, Hanover College
   Faculty Sponsor: Valerie Young, Hanover College

3. Pronto Me Muero (Soon I Die)
   Christopher Keaton, Ball State University
   Faculty Sponsor: Elizabeth Bell, Ball State University

8:45 a.m. – 9:45 a.m.  EDUCATION  Irwin Library, 2nd Floor

Floor Manager: Rusty Jones

4. Building Positive and Effective Relationships with Students: What they Look Like and How they are Created
   Deborah Arehart, Butler University
   Faculty Sponsor: Shelly Furuness, Butler University

5. The Power of the Studio
   Nicole Vetter, Butler University
   Faculty Sponsor: Susan Adamson, Butler University
Floor Manager: Rusty Jones

6. A Narrative-based Video Game to Encourage Cultural Literacy
   Nicholas Boyer, Ball State University
   Ashley Cox, Ball State University
   Kaley Rittichier, Ball State University
   Lucas Miller, Ball State University
   Jessica Stanford, Ball State University
   Josh Schoen, Ball State University
   Brennan Wade, Ball State University
   Jessica Lobse, Ball State University
   Jack McGinnis, Ball State University
   Paco DeArmond, Ball State University
   Caleb Woods, Ball State University
   Faculty Sponsor: Paul Gestwicki, Ball State University

Floor Manager: Rusty Jones

7. Berne High School Builds a German Language Program: Youth, Ethnicity, and Religion During World War I
   Emma Gaier, Purdue University
   Faculty Sponsor: Nancy Gabin, Purdue University

Floor Manager: Mikaela Drake

23. The Effect of Sediment Distribution on Water Flow using a Physical System and Computer Model
    Caleb Reiter, St Ambrose University
    Caleb Gibson, St Ambrose University
    Susa Stonedahl, St Ambrose University
    Faculty Sponsor: Susa Stonedahl, St Ambrose University

Floor Manager: Rusty Jones

8. Duality and Dualism in Sousa’s “The Stars and Stripes Forever”
   Melissa Oittinen, Butler University
   Faculty Sponsor: Andrew Farina, Butler University

9. I’m Not Saying the Koussevitzky Double Bass Concerto is Just a Ternary Form (It’s More)
   Sarah Grant, Butler University
   Faculty Sponsor: Andrew Farina, Butler University

10. The Bow Arm in Beginning and Intermediate Violin
    Mikkel Beavers, Eastern Illinois University
    Faculty Sponsor: Anna Cromwell, Eastern Illinois University
Floor Manager: **Jason Lantzer**

5. **Assessment of Diabetes Knowledge and Influential Factors of Health- Behaviors of Hanover College Students**
   Jeremy Cartwright, Hanover College
   Faculty Sponsor: **Molly Winke**, Hanover College

6. **Attitudes Towards Medications and Pharmacists Among the Burmese Population in Central Indiana**
   Biak Chinpar, Butler University
   Faculty Sponsors: **Priscilla Ryder** and **Suneeta Kercood**, Butler University

7. **Building Meaningful Relationships: Defining Qualities and Strategies from Research and Observations**
   Vince Marshall, Butler University
   Faculty Sponsor: **Shelly Furuness**, Butler University

8. **Creation and Evaluation Of An Online Education Program To Measure And Improve Professionalism Among Pre-Pharmacy Students**
   Craig Fisher, Butler University
   Faculty Sponsor: **Meghan Bodenberg**, Butler University

9. **Comparison of the Effects of the NormaTec Compression Device and Compression Garments during Muscle Recovery of the Elbow Flexors**
   Shelby Williamson, Hanover College
   Faculty Sponsor: **Molly Winke**, Hanover College

10. **Empiric Use of Beta-lactams in Pediatric Patients with Methicillin- susceptible Staphylococcus aureus bacteremia**
    Sarah Ferry, Butler University
    Wendy Yin, Butler University
    Alexandria Arends, Butler University
    Faculty Sponsors: **Chad Knoderer** and **Kristen Nichols**, Butler University

11. **Extended Infusion Piperacillin-Tazobactam versus Extended Infusion Cefepime in Febrile Neutropenia Patients**
    Grant Cooper, Butler University
    Hanna Corey, Butler University
    Faculty Sponsors: **Chad Knoderer** and **Jill Leslie**, Butler University

12. **Implementing a Program to Educate Independent Seniors on the Management of Cough, Cold, and Flu**
    Matthew Tran, Butler University
    Matthew Krzywosz, Butler University
    Faculty Sponsors: **Tracy Sprunger** and **Amy Lenell**, Butler University

13. **Solubility and Stability of Concentrated Naloxone Hydrochloride Intravenous Infusion**
    Carolyn Honigford, Butler University
    Faculty Sponsors: **Meredith Howard**, **Sarah Nisly**, and **Hala Fadda**, Butler University

14. **The Paradox of Medical Marijuana: An Exploration of the Legalities and Therapeutics of Tetrahydrocannabinol and Cannabidiol**
    Whitney Dumas, Purdue University Calumet
    Faculty Sponsor: **Harold Pinnick**, Purdue University Calumet

15. **The Effects of Different Glycemic Index Pre-Workout Snacks on Exercise Performance**
    Gloria McCarty-Flores, Hanover College
    Faculty Sponsor: **Molly Winke**, Hanover College
16. The Relationship Between Nutrition Knowledge and Self-Control on College Students’ Diets
   **Madison Lee**, Hanover College
   Faculty Sponsor: **Molly Winke**, Hanover College

8:45 a.m. – 9:45 a.m. **PHYSICS & ASTRONOMY** Irwin Library, Lower Level

Floor Manager: **Mikaela Drake**

24. Analyzing Upsilon Production in Proton-AntiProton Collision from CDF Run II
   **Shannon Suttles**, Butler University
   Faculty Sponsor: **Kevin Pitts**, Butler University

25. Laser Optogalvanic Investigations of Argon Atomic Transitions
   **Ashley Dale**, Butler University
   Faculty Sponsor: **Xianming Han**, Butler University

8:45 a.m. – 9:45 a.m. **PSYCHOLOGY 1** Pharm. & Health Sci. Bldg. Lower Concourse

Floor Manager: **Jason Lantzer**

17. Age-Related Patterns of Stranger Anxiety in Fragile X Syndrome
   **Natalie Bengert**, Purdue University
   **Madeline Holen**, Purdue University
   **Madison Brewer**, Purdue University
   **Callie Zaborenko**, Purdue University
   Faculty Sponsor: **Bridgette Tonnsen**, Purdue University

18. Are All Placebos the Same? A Study Regarding the Effects of Different Methods of Placebo Delivery on Exercise Performance
   **Tori Ehman**, Hanover College
   Faculty Sponsor: **Molly Winke**, Hanover College

19. Correlation of Source Misattribution and Critical Thinking in College Students
   **Whitney Condit**, Ohio Christian University
   Faculty Sponsor: **Sylvia McDonald**, Ohio Christian University

20. Dynamic Relationships Among Flourishing, Leadership Attitudes, and Leadership Development Activity
   **Kara Ribordy**, Butler University
   **Layne Garrison**, Butler University
   **Hanna Throgmorton**, Butler University
   Faculty Sponsor: **Alison O’Malley**, Butler University

21. Effects of Color on Memory and Performance
   **Ruthanne Ekwealor**, Manchester University
   **Marilyn Godinez**, Manchester University
   Faculty Sponsor: **Marcie Coulter-Kern**, Manchester University

   **Rachel Hedinger**, Ball State University
   Faculty Sponsor: **Stephanie Simon-Dack**, Ball State University

23. Evaluating Social Issues
   **Savannah Guimond**, Ball State University
   Faculty Sponsor: **Mary Kite**, Ball State University
24. Helicopter Parenting: Helpful or Harmful?  
   **Martin Duchossois**, Indiana University South Bend  
   Faculty Sponsors: **Hugh Van Auken** and **Doris Van Auken**, Indiana University South Bend

25. How Does Commuting Impact Campus Engagement  
   **Shyan Fortuna**, Manchester University  
   **Tiffany Harber**, Manchester University  
   Faculty Sponsor: **Marcie Coulter-Kern**, Manchester University

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**10:45 a.m. – 11:45 a.m.**  
**PSYCHOLOGY 2**  
**Pharm. & Health Sci. Bldg. Lower Concourse**

Floor Manager: **Jason Lantzer**

1. Eyewitness Testimony  
   **Kristina Hamler**, Bluffton University  
   Faculty Sponsor: **Deanna Barthlow**, Bluffton University

2. Incremental Strategy-Oriented Feedback Promotes Positive Leadership Perceptions and Feedback Reactions  
   **Lauren Murphy**, Butler University  
   **Alison O’Malley**, Butler University  
   Faculty Sponsor: **Alison O’Malley**, Butler University

3. It’s a Healthy Obsession! Examining the Personality Characteristics of College Students in Fandoms  
   **Carly Schweier**, Bluffton University  
   Faculty Sponsor: **Deanna Barthlow-Potkanowicz**, Bluffton University

4. Lentiviral-Vector Expression Knockdown of the Type-A GABA α2-Subunit in the Mouse Hippocampus  
   **Patricia Muskus**, Indiana University-Purdue University Indianapolis  
   **Michael Smoker**, Indiana University-Purdue University Indianapolis  
   **Yanping Zhang**, Indiana University-Purdue University Indianapolis  
   Faculty Sponsor: **Stephen Boehm**, Indiana, University-Purdue University Indianapolis

5. Physical Activity Monitors: Exploring Some Psychological Variables  
   **Adrianna Caballero**, Ball State University  
   **Sylvia Leithner**, Ball State University  
   Faculty Sponsor: **Darrell Butler**, Ball State University

6. Psychological Variables Influencing Adoption of Future Internet of Things Technologies  
   **Jacob Price**, Ball State University  
   **Ryon Herin**, Ball State University  
   Faculty Sponsor: **Darrell Butler**, Ball State University

7. Psychometric Analysis of a Customer Service Survey Based on the Disney Integration Matrix  
   **Louis Gervais**, Manchester University  
   **Veronica Caudil**, Manchester University  
   **Jarod Schrock**, Manchester University  
   **Katy Ashpole**, Manchester University  
   Faculty Sponsor: **Russell Coulter-Kern**, Manchester University

8. Resilience in Adolescent Girls Across Environmental Contexts  
   **Leah Smith**, Manchester University  
   **Lucas Al-Zoughbi**, Manchester University  
   Faculty Sponsor: **Marcie Coulter-Kern**, Manchester University

9. Social Honesty and Culture: White Lies and Social Face  
   **Jared Joseph**, Valparaiso University  
   Faculty Sponsor: **Jim Nelson**, Valparaiso University
10. Student Satisfaction with On-Campus Residency
   Amber Willwerth, Manchester University
   Travis Rushing, Manchester University,
   Andrea Holbrook, Manchester University
   Faculty Sponsor: Marcie Coulter-Kern, Manchester University

11. Telling the Whole Story: Children’s Narrative Development in Two Rural American Communities
   Karah Ellis, Saint Mary-of-the-Woods College
   Faculty Sponsor: Douglas Sperry, Saint Mary-of-the-Woods College

12. Testing Abilities in Respect to Circadian Rhythm and Chronotype
   Stephanie Kobierski, Ball State University
   Jill Hermus, Ball State University
   Faculty Sponsor: Darrell Butler, Ball State University

13. The Effect of Intrinsic and Extrinsic Motivation on Academic Burnout
   Zachary Coleman, Ball State University
   Faculty Sponsor: Darrell Butler, Ball State University

14. The Effects of Multitasking on Recall in College Students
   Carly Schweier, Bluffton University
   Tara Murphy, Bluffton University
   Michaela Ionita, Bluffton University
   Marissa Radigan, Bluffton University
   Faculty Sponsor: Deanna Barthlow-Potkanowicz, Bluffton University

15. The Impact of Person-Organization Fit on Employee Engagement, Turnover Intention, and Tenure
   Jeremy Williams, Manchester University
   Anthony Kupstis, Manchester University
   Tyler Smith, Manchester University
   Emily Witvoet, Manchester University
   Faculty Sponsor: Jack Wiley, Manchester University

16. The Influences of Emotional Valence and Intensity on Athletic Performance
   Megan Collins, Hanover College
   Faculty Sponsor: Molly Winke, Hanover College

17. The Relationship between Sexually Explicit Media and Sexual Attitudes and Behaviors
   Sharla Smith, Anderson University
   Faculty Sponsor: Laura Stull, Anderson University

18. The Role of Effort in Spatial Learning: Evidence from a Non-visual Task
   Jacob Johnston, Eastern Illinois University
   Faculty Sponsor: Daniele Nardi, Eastern Illinois University

19. The Role of Honors College Summer Orientation in Freshman Expectation and Satisfaction: A Pretest-Posttest Survey
   Kalee Miller, Ball State University
   Faculty Sponsor: Kristin Ritchey, Ball State University

20. Value of Welcome Week Throughout the Student Experience
   Taylor Crisman, Manchester University
   Ashleigh Ridenour, Manchester University
   Faculty Sponsor: Marcie Coulter-Kern, Manchester University

21. The Testing Effect in Foreign Language Learning: Effects of Presentation Modality
   Callen Jones, Butler University
   Sarah DeBellis, Butler University
   Eileen Hogan, Butler University
   Alison Winslow, Butler University
   Faculty Sponsor: Amanda Gingerich, Butler University
22. Tweets, Hashtags, & Likes: How is Social Media Use Related to Empathy
   Sasha Zarins, Indiana University-Purdue University Indianapolis
   Ava Le, University of Indianapolis
   Emily Mahurin, Butler University
   Michael McFerran, Butler University
   Faculty Sponsor: Sara Konrath, Butler University

23. Using Ecological Momentary Assessment to Monitor and Foster Gratitude
   Sarah Pierce, Indiana Wesleyan University
   Micah Brown, Indiana Wesleyan University
   Faculty Sponsors: Jason Runyan, Doug Daugherty and Tim Steenbergh, Indiana Wesleyan University

24. Toy and Playmate Selection among School Aged Boys
   Noah Younghans, University of Indianapolis
   Faculty Sponsor: Greta Pennell, University of Indianapolis

25. The Social Development of an Elephant Calf
   Samantha Ruppert, Butler University
   Brandon Knepper, Butler University
   Faculty Sponsor: Robert Dale, Butler University

8:45 a.m. – 9:45 a.m.   SOCIOLOGY   Pharm. & Health Sci. Bldg. Lower Concourse

Floor Manager: Jason Lantzer

26. Exploring Gender-Typed Toy Preferences in Early Education
    Kaitlyn Betz, University of Indianapolis
    Faculty Sponsor: Greta Pennell, University of Indianapolis

27. Are Outdoor Toys More Gender Neutral than Indoor Toys?
    Morgan Vest, University of Indianapolis
    Faculty Sponsor: Greta Pennell, University of Indianapolis

28. Holiday Advertising: The Impact on Different Age Groups
    Samantha Hunter, University of Indianapolis
    Faculty Sponsor: Greta Pennell, University of Indianapolis
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<th>Name</th>
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