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CONFERENCE TEAM

Conference Director
Dr. Rusty Jones

Special Events Advisor
Megan Theophilus

Conference Coordinator
Cathy Holland

Information Technology Advisors
David Alder, Whitney Bryant, Wade Guisewhite & Brian Wilson

AREA COORDINATORS

Anthropology
Dr. Elise Edwards

History & Classics
Dr. Paul Hanson

Art History & Art Exhibition
Dr. Elizabeth Mix

International Studies
Dr. Montgomery Broadded

Biochemistry & Molecular Biology
Dr. Jeremy Johnson

Modern Foreign Languages
Dr. Alex Quintanilla

Biology & Sustainability
Dr. Jennifer Kowalski

Music & Dance
Dr. James Briscoe

Business & Economics
Prof. Hilary Buttrick,

Pharmacy, Health Sciences & Exercise Science
Dr. Chad Knoderer & Ms. Dawn Kidd

Chemistry
Dr. Paul Morgan

Philosophy & Religion
Dr. Tiberiu Popa

Communication & Media Studies
Dr. Casey Kelly

Physics, Mathematics & Computer Science
Dr. Xianming Han

Education
Dr. Susan Adams

Political Science
Dr. Robin Turner

English Literature & Creative Writing
Dr. Joseph Colavito

Psychology
Dr. Joel Martin

Gender, Women & Sexuality Studies
Dr. Brooke Beloso

Sociology
Dr. Antonio Menéndez-Alarcón
URC CONFERENCE SCHEDULE

7:30 a.m.-9:30 a.m.  Conference Check-in Irwin Library

7:30 a.m. – 10:00 a.m.  Light Breakfast, Irwin Library

8:30 a.m. – 9:30 a.m.  Poster Session, Irwin Library

8:30 a.m. – 3:00 p.m.  Art Exhibition, Irwin Library

8:30 a.m. – 4:30 p.m.  Concurrent Oral Presentation Sessions. See program for specific session times

11:30 a.m. – 1:30 p.m.  Box Lunches Available in Reilly Room, Atherton Union

12:00 p.m. – 1:00 p.m.  Poster Session 2, Irwin Library

12:15 p.m. - 12:30 p.m.  Welcoming address Dr. Kathryn Morris, Provost and Vice President for Academic Affairs
Reilly Room, Atherton Union

This wonderful conference would not be possible without the superlative efforts of our colleagues and students from across the campus. We thank you for all you do to make this day a success.

Faculty Moderators: Susan Adams, Jarrett Amsden, Kim Beck, McKenzie Beverage, Bruce Bigelow, Denis Boateng, Meghan Bodenberg, Joe Boozell, James R. Briscoe, Monte Broaded, Christopher Bungard, Andrew Butler, Hilary G. Buttrick, Krista Cline, Rocky Colavito, Kenneth Colburn, Robert Dale, Vivian Deno, Elise Edwards, Shelley Etnier, Katie Fizer, Lee Garver, Erin Gerecke, R. Brian Giesler, Amanda Gingerich, Paul Hanson, Nat Hauck, Alex Isaacs, R. Jeremy Johnson, Nicholas Johnson, Jim Keating, Casey Kelly, Skylar Kobren, Justin Kotiw, Jennifer Kowalski, Kena Lanham, Shannon Lieb, Tara Lineweaver, Carrie Maffeo, Joel Martin, Annette McFarland, Elizabeth Mix, Katherine Novak, Alison O’Malley, Robert Oprisko, Robert Padgett, Sarah Painitz, Sheel Patel, Tiberiu Popa, Cathy Ramey, Darin Ramsey, David Reeves, Carmen Salsbury, Mike Samide, Marvin Scott, Sholeh Shahrokhi, Tracy Sprunger, Andrew Stoehr, Susan Sutherlin, Jeanne VanTyle, Phil Villani, Bill Walsh, Anne Wilson

Staff & Faculty From Academic Affairs: Melody Adkins, Connie Anders, Julie Barrett, Gary Beaulieu, Susan Berger, Laura Brandenburg, Regan Bright, Pam Crea, Jamie Duvall, Rena Duerksen, Liz Freedman, Susan Greenfield, Debbie Jones, Anne Minnich-Beck, Carol Montgomery, Lori Moore, Mary Froffitt, Julie Schrader, Sharon Schuyler, Jo Wagoner, Teresa Williams, and Joey Wohlhieter.

Student Workers: Brittany Babbit, Sarah Berk, Drew Brandon, Jared Curcio, Leslie Cyranowski, Dana Erness, Aaron Halisch, Shannon Hiday, Riley Hill-Kartel, Emily Hogg, Raj Kamrari, Brandon Katz, Chris McDonald, Hannah McKe and Trenton Reeve.

The staff members from Conferences & Special Events, Campus Impressions, Facilities, Print Marketing & Communications, Information Technology, and Web Marketing & Communications
PRESENTATION SCHEDULE

ANTHROPOLOGY

Anthropology Session 1: Transforming Identities in Argentina, Vietnam, Japan, and Indianapolis, Indiana
Moderator: Sholeh Shahrokhi
09:00 AM – 10:00 AM Jordan Hall 276
09:00 AM – The Recovered Businesses of Argentina: Identities in an Imagined Country
Martha Leuthner Butler University. Faculty Sponsors: Elise Edwards Butler University
09:15 AM – Vietnam Multiculturalism
Cody Wiswasser Ball State University, Travis Muller Ball State University. Faculty Sponsors: Gerry Waite Ball State University
09:30 AM – Faithful Inquiry: An Ethnographic Study of Religious Education
Noah Huyette Butler University. Faculty Sponsors: Elise Edwards Butler University
09:45 AM – Japanese Modernity and "Women's Language"
Livio Guillaume Butler University. Faculty Sponsors: Elise Edwards Butler University

Anthropology Session 2: Millennials in Vietnam: Lock and Load, Rock and Roll
Moderator: Elise Edwards
10:15 AM – 11:30 AM Jordan Hall 276
Panel abstract: As members of the millennial generation, the tools we used to illuminate the personal and global effects of the American War in Vietnam could only speak to our assumptions of the characters and stories defined by the 1960s. Our ethnographic studies were the foundation for the field study, as we would later attempt to create a narrative from our interactions with five Vietnam veterans in a country forty years removed from war. Our processes for gaining data changed as we realized unearthing the complexities associated with the study dealt with global and personal wars, individual identities, and Vietnam as a changing milieu. Though our prior education on Vietnam explained what we would see, our stories, as qualitative inquiries, combined with the veterans’ returning perspectives to create a generational discourse. Through our individual narratives, we express a broadened perspective on bridging the divide between our generations.

Spencer Sabinske Ball State University. Faculty Sponsors: Gerry Waite Ball State University
10:30 AM – Interpretation and Flexibility: Ethnographic Fieldwork in Vietnam
Katrina Pieri Ball State University. Faculty Sponsors: Gerry Waite Ball State University
10:45 AM – Metaphor and Reality: Expectations of Vietnam from Millennial Eyes
Cooper Cox Ball State University. Faculty Sponsors: Gerry Waite Ball State University
11:00 AM – Millennials and Veterans: The Final Chapter
ART HISTORY

Art History Session 1: History of Art and Design
Moderator: Elizabeth Mix
11:00 AM – 12:00 PM Lilly Hall 133
11:00 AM – Art, Power, and Politics: The Construction of Cave 156 at Dunhaung and the Zhang Family
   Khanh Le Hanover College. Faculty Sponsors: Mandy Jui-man Wu Hanover College
11:15 AM – Michelangelo Achieves Perfect Balance of Secular and Non-Secular as His Career Progresses: From David to Risen Christ
   Elizabeth Doolittle Flagler College. Faculty Sponsors: Chris Balaschak Flagler College
11:30 AM – The Liminality of Antoine Watteau and His Quietly Subversive Influence on the Rococo
   Rebecca Petrilli Wittenberg University. Faculty Sponsors: Janice Glowski Wittenberg University
11:45 AM – Evolution of Decorative Architecture in Vietnam
   Carrie Rhodus Ball State University. Faculty Sponsors: Gerry Waite Ball State University

Art History Session 2: Literature, Visual Culture and Theory
Moderator: Elizabeth Mix
01:00 PM – 02:00 PM Lilly Hall 133
01:00 PM – J.M.W. Turner's Vortex: Painting, Alchemy, and Literature in the Perspective Lectures and Sketchbooks
   Samuel Russell Indiana University/Purdue University at Indianapolis. Faculty Sponsors: Jean Robertson Indiana University/Purdue University at Indianapolis
01:15 PM – Ophelia [Re]Envisioned: Feminist, Intertextual Analysis of Depictions of Ophelia from the Baroque to Postmodern Era
   Reid Bruner Butler University. Faculty Sponsors: Elizabeth Mix Butler University
01:30 PM – Art and the Landscape of Oppression in Lars Von Trier's Dystopic Duo: Melancholia and Antichrist
   Gregory Maher Valparaiso University. Faculty Sponsors: Peter Lutze Valparaiso University
01:45 PM – The Art of Trauma: Abstraction and 'Locke and Key'
   Kirsten Stricker Wittenberg University. Faculty Sponsors: Janice Glowski Wittenberg University
Art History Session 3: Visual Art
Moderator: Steve Nyktas
02:00 PM – 03:30 PM Lilly Hall 133
02:00 PM – I Spy
    Ashleigh Schneckenberger Butler University. Faculty Sponsors: Steve Nyktas Butler University
02:15 PM – Peering In
    Amber Mills Butler University. Faculty Sponsors: Steve Nyktas Butler University
02:30 PM – Through the Eyes of Imagination
    Erin Drennan Butler University. Faculty Sponsors: Steve Nyktas Butler University
02:45 PM – Pieces
    Morgan McFarland Butler University. Faculty Sponsors: Steve Nyktas Butler University
03:00 PM – Seeing Through the Stigma
    Kaylin Beckwith Butler University. Faculty Sponsors: Steve Nyktas Butler University
03:15 PM – Tiny Snippets: A Series of Relational Artworks
    Olivia Toriumi Butler University. Faculty Sponsors: Steve Nyktas Butler University

BIOCHEMISTRY & MOLECULAR BIOLOGY

Biochemistry and Molecular Biology Session 1
Moderator: R. Jeremy Johnson
09:30 AM – 10:45 AM Gallahue Hall 101
09:30 AM – Engineering of Catalytic Activity into TH13 Protein
    Ahmed Malik Indiana University/Purdue University at Indianapolis. Faculty Sponsors: Michael McLeish Indiana University/Purdue University at Indianapolis
09:45 AM – The Role of Histone H3K79 Methylation Patterns in UV-Induced Sister Chromatid Exchange and G1/S Checkpoint Response in Saccharomyces cerevisiae
    Elizabeth Steenkiste Denison University. Faculty Sponsors: Jeff Thompson Denison University
10:00 AM – Effect of P13K Stimulation on EZH2 Expression in UMUC14 Urothelial and UMUC3 Bladder Cancer Cells
    Corinne Haines Denison University. Faculty Sponsors: Lina Yoo Denison University
10:15 AM – Revisiting the Gene Models of a Rodent Malaria Genome
    Tyler Gibson Earlham College. Faculty Sponsors: Peter Blair Earlham College
10:30 AM – Thermal Denaturation of Mycobacterium Tuberculosis Protein Rv0045c Monitored by Intrinsic Tryptophan Fluorescence
    Lindsey Drake Butler University. Faculty Sponsors: Geoffrey Hoops Butler University
BIOLOGY & SUSTAINABILITY

Biology and Sustainability Session 1: Cell and Molecular Biology I
Moderator: Nat Hauck
09:30 AM – 10:30 AM Gallahue Hall 102
09:30 AM – Characterization of the Role of Salicylic Acid in Plant-Pathogen Interactions in Moss
Erin Grabinski Butler University. Faculty Sponsors: Nat Hauck Butler University
09:45 AM – Effectiveness of Photokilling of Methicillin Resistant Staphylococcus aureus by Four Classes of Photosensitizers
Melissa Rankin Midway College. Faculty Sponsors: William McGowan Midway College
10:00 AM – Hibiscus sabdariffa, Therapeutic Uses for Treating Pulmonary Hypertension.
Johnny Glenn Tuskegee University. Faculty Sponsors: Chastity Bradford Tuskegee University
10:15 AM – The Influence of Light on Mnium cuspidatum Responses to Pathogen Infection
Bryce Fawcett Butler University. Faculty Sponsors: Philip Villani Butler University

Biology and Sustainability Session 2: Ecology, Evolution, Behavior I
Moderator: Andrew Stoehr
09:45 AM – 10:30 AM Gallahue Hall 105
09:45 AM – A Phylogenetic Analysis of the Genus Ophioglossum S.S. (Ophioglossaceae)
Alex Fults-Ganey Denison University. Faculty Sponsors: Warren Hauk Denison University
10:00 AM – Intraspecific Variation in a Hawaiian Population of Ophioderma pendula (Ophioglossaceae)
Carla Ramirez Denison University. Faculty Sponsors: Warren Hauk Denison University
10:15 AM – The Spread of Batrachochytrium dendrobatidis Throughout the Americas and its Impact on Anuran Populations
Charles Boyd Earlham College, Clara Stuligross Earlham College, Kasun Bodawatta Earlham College. Faculty Sponsors: Wendy Tori Earlham College

Biology and Sustainability Session 3: Sustainability, Urban Ecology, Environmental Studies
Moderator: McKenzie Beverage
10:45 AM – 11:45 AM Gallahue Hall 102
10:45 AM – Academic Discipline - Sustainability, Urban Ecology, and Environmental Studies
Amy Anderson Ball State University. Faculty Sponsors: Andrea Wolfe Ball State University
11:00 AM – Factors Influencing Food Deserts
Angelina Qin Butler University. Faculty Sponsors: Nic Mink Butler University
11:15 AM – The Prevalence of E.coli and Fecal Coliforms on Equestrian Workers’ Boots in Central Kentucky
Courtney Komjathy Midway College. Faculty Sponsors: Beverly Juett Midway College
11:30 AM – Preliminary Research on Methods for Eradicating Autumn Olive
  Trevor Chapman Hanover College, Evanna Sehr Hanover College, Garret Kingston
  Hanover College. Faculty Sponsors: Darrin Rubino Hanover College

Biology and Sustainability Session 4: Cell and Molecular Biology II
Moderator: Jennifer Kowalski
10:45 AM – 11:45 AM Gallahue Hall 105
10:45 AM – Investigating the Meningeal Reaction During Spinal Cord Regeneration
  Sarah Scott Indiana University/Purdue University at Indianapolis. Faculty Sponsors:
  Ellen Chernoff Indiana University/Purdue University at Indianapolis
11:00 AM – Investigation of FSHR-1 Protein Function in Regulating Synaptic
  Transmission in C. elegans
  Julie Kolnik Butler University. Faculty Sponsors: Jennifer Kowalski Butler University
11:15 AM – Investigation of the Role of PTEN on EZH2 Expression
  Evan Hunter Denison University. Faculty Sponsors: Lina Yoo Denison University
11:30 AM – The Effects of MsrA and MsrB in Anoxia Tolerance in Aging Drosophila
  melanogaster
  Nirthieca Suthakaran Florida Atlantic University. Faculty Sponsors: Dr. David Binninger
  Florida Atlantic University

Biology and Sustainability Session 5: Ecology, Evolution, Behavior II
Moderator: Shelley Etnier
11:00 AM – 11:45 AM Gallahue Hall 101
11:00 AM – Substrate Preferences of Nesting Lepomis Megalotis, the Longear Sunfish
  Rebecca Allee Butler University. Faculty Sponsors: Shelley Etnier Butler University
11:15 AM – Microhabitat Nest Selection by Two Secondary Cavity Nesting Birds: Eastern
  Bluebirds (Sialia sialis) and Tree Swallows (Tachycineta bicolor
  Charles Boyd Earlham College, Zara Silberberg Earlham College. Faculty Sponsors:
  Wendy Tori Earlham College
11:30 AM – Olfaction as a Cue for Nest Site Choice in Painted Turtles (Chrysemys picta) in
  Nebraska
  Hanna Klondaris Earlham College, Chris Angell Earlham College. Faculty Sponsors:
  Wendy Tori Earlham College, John Iverson Earlham College

Biology and Sustainability Session 6: Ecology, Evolution, Behavior III
Moderator: Carmen Salsbury
01:15 PM – 02:30 PM Gallahue Hall 102
01:15 PM – Seed Dispersal of Native and Non-Native Fruiting Plants by Birds in a
  Northwest Indiana Landscape
  Kaitlin Rogers Valparaiso University, Heather Albertson Valparaiso University, Mary-
  Ann Craft Valparaiso University. Faculty Sponsors: Laurie Eberhardt Valparaiso
  University
01:30 PM – Assessing Risk of Conopid Parasitism in Foraging Bumblebees Using Radio
  Frequency Technology
  Clara Stuligross Earlham College. Faculty Sponsors: Wendy Tori Earlham College
01:45 PM – Fox Squirrel (Sciurus niger) Response to Bark Calls
Michael Keller Butler University. Faculty Sponsors: Carmen Salsbury Butler University
02:00 PM – The Passive Perching Mechanism in Passeriformes Birds
Deena Elsahy Butler University. Faculty Sponsors: Shelley Etnier Butler University

Biology and Sustainability Session 7: Cell and Molecular Biology III
Moderator: Phil Villani
01:15 PM – 02:45 PM Gallahue Hall 105
01:15 PM – Cell Migration and Microfilament Organization in Acute Camptothecin Treated Mouse Embryo Fibroblasts
Esther M. Walker University of Indianapolis. Faculty Sponsors: Mary Ritke University of Indianapolis
01:30 PM – The Effect of Tea Polyphenols as Telomerase Inhibitors in Cancerous HeLa Cells
Nathaniel Holt Butler University, Joseph Thomas Butler University. Faculty Sponsors: Philip Villani Butler University
01:45 PM – Biological Interactions Between Defense-Related Plant Hormones in Physcomitrella patens and the Fungal Pathogen Pythium irregulare
Ryan Eller Butler University. Faculty Sponsors: Nat Hauck Butler University
02:00 PM – The Fine Structure of Spermatids During Spermiogenesis Within the Sea Snake, Pelamis platurus
Cady Gannon Wittenberg University, Man Chun Li Wittenberg University. Faculty Sponsors: Kevin Gribbins Wittenberg University
02:15 PM – Molecular and Cytological Characterization of dsyCS, a Maize Mutant Defective in Homologous Chromosome Pairing During Meiosis
Blaine Harlan Butler University. Faculty Sponsors: Wojtek Pawlowski Cornell University
02:30 PM – Spi-C Negatively Regulates Eosinophil Peroxidase Production in Murine Eosinophils
Michael Stephens Thomas More College. Faculty Sponsors: Shannon Galbraith-Kent Thomas More College

Biology and Sustainability Session 8: General Biology
Moderator: Erin Gerecke
01:15 PM – 02:45 PM Gallahue Hall 101
01:15 PM – The Relationship Between Personal Ethical Norms and Attitudes Towards Science
Alexis Kaiser Anderson University. Faculty Sponsors: Michael Bailey Anderson University
01:30 PM – Using GIS to Identify and Predict Environmental Racism in Indiana
Abby Primack Earlham College, Andrew Hood Earlham College, Caitlin Clark Earlham College. Faculty Sponsors: Wendy Tori Earlham College
01:45 PM – Fine Focus Undergraduate Journal for Microbiology
Jack Hesser Ball State University, Grey Harris Ball State University. Faculty Sponsors: John McKillip Ball State University
02:00 PM – Spectrophotometric Analysis of the Mold Apsergillus flavus in Embalming Fluids Using an XTT Assay Kit.
Kyle Haas Bellarmine University, Shane Kimble Bellarmine University. Faculty Sponsors: Joanne Dobbins Bellarmine University

02:15 PM – The Effects of Water in the Retardation of the Fungi Aspergillus flavus Growth in Embalming Fluids
Kyle Haas Bellarmine University, Shane Kimble Bellarmine University. Faculty Sponsors: Joanne Dobbins Bellarmine University

BUSINESS & ECONOMICS

Business and Economics Session 1
Moderator: Hilary G. Buttrick
01:30 PM – 02:45 PM Gallahue Hall 106
01:30 PM – Economic Downturns
Ryan Alsman Butler University. Faculty Sponsors: William Rieber Butler University
01:45 PM – Age Bias in Unemployment: A Regression Analysis
Keith Kline Manchester University. Faculty Sponsors: Sreenath Majumder Manchester University
02:00 PM – An Overview of Universal Basic Income: Discussion on the Benefits of a Single System Welfare Standard
Zachary Quintero University of Science & Arts of Oklahoma. Faculty Sponsors: Jennifer Long University of Science & Arts of Oklahoma
02:15 PM – The Effect of Medium and Auto Enrollment Rates on Contribution Rates for Defined Contribution Plans
Kegan Saajasto Butler University. Faculty Sponsors: Priscilla Arling Butler University, Jill Kirby Butler University
02:30 PM – Technology: Do Announcement Dates Matter in the Stock Market?
Jillian Baum Franklin College. Faculty Sponsors: Hisaya Kitaoka Franklin College

CHEMISTRY

Chemistry 1
Moderator: Mike Samide
09:45 AM – 10:45 AM Gallahue Hall 108
09:45 AM – The Effect of Selenate Ions on Formation of Oxidative Damage Markers in DNA
Lee Siemer Rose-Hulman Institute of Technology. Faculty Sponsors: Daniel Morris Rose-Hulman Institute of Technology
10:00 AM – High Index of Refraction Polycarbonates Synthesized from Triphosgene and Indicators
Yuan Xue *Rose-Hulman Institute of Technology*. Faculty Sponsors: Dr. Bruce Allison  
*Rose-Hulman Institute of Technology*  
10:15 AM – *Photophysical Studies of Lanthanide Terpyridine Complexes*  
Ryan Golkowski *Purdue University*. Faculty Sponsors: David McMillin *Purdue University*  
10:30 AM – *Synthesis and Resolution of a Substituted Dioxolane from Glycerol*  
Susannah Cox *Butler University*. Faculty Sponsors: Stacy O’Reilly *Butler University*  

**Chemistry 2**  
**Moderator: Shannon Lieb**  
11:00 AM – 11:45 AM Gallahue Hall 108  
11:00 AM – *Functionalizing Fluorescent Protein for Detection of Explosive Compounds in Hydrogels*  
Ethan Hillman *Anderson University*, Ryan Mote *Anderson University*, Kent Shilts  
*Anderson University*. Faculty Sponsors: Scott Kennedy *Anderson University*  
11:15 AM – *Toward the Development of Portable Ion Analysis*  
Luke Gallion *Butler University*. Faculty Sponsors: Michael Samide *Butler University*  

**Chemistry 3**  
**Moderator: Anne Wilson**  
01:15 PM – 03:00 PM Gallahue Hall 108  
01:15 PM – *Electrochemical Properties and Fading Patterns of Eosin and Other Pigments*  
Jessica Lukowski *Butler University*. Faculty Sponsors: Michael Samide *Butler University*  
01:30 PM – *Using Nanoporous Gold as an Electrochemical Sensor in Biologic Solutions*  
Jay Patel *Virginia Commonwealth University*. Faculty Sponsors: Maryanne Collinson  
*Virginia Commonwealth University*, Jacqueline Smith-Mason *Virginia Commonwealth University*  
01:45 PM – *Development of a Dilute-and-Shoot Sample Preparation Method for Trace and Mineral Element Determination in Wine by ICP-MS*  
Lacey Auman *Butler University*. Faculty Sponsors: Olujide Akinbo *Butler University*  
02:00 PM – *Spectroscopic Study of Lignin Monomer Analogs: 2,3-dimethoxyphenol and 1,3,5-trimethoxybenzene*  
Polina Navotnaya *Purdue University*. Faculty Sponsors: Timothy Zwier *Purdue University*  
02:15 PM – *Ultraviolet Spectroscopy of Lignin Chromophores*  
Alexander Parobek *Purdue University*. Faculty Sponsors: Timothy Zwier *Purdue University*  
02:30 PM – *Spectroscopic Studies on Lignin Monomer Analogs: 2-Methoxyresorcinol*  
Rachel Clayton *Purdue University*. Faculty Sponsors: Timothy Zwier *Purdue University*
COMMUNICATION & MEDIA STUDIES

Communication & Media Studies Session 1: Globalization, (Post)Racial Rhetoric, and the American Dream
Moderator: Casey Kelly
09:00 AM – 10:30 AM Jordan Hall 207
09:00 AM – Turning On and Off the "Post Racial Gaze"
   Anaiis Cisco City University of New York - Queens College. Faculty Sponsors: Roopali Mukherjee City University of New York - Queens College
09:15 AM – A Movement of Words: A Civil Rights Movement Metaphoric Criticism
   Hannah Pfau Taylor University. Faculty Sponsors: Jessica Rousselow Taylor University
09:30 AM – Barbershop Spaces and Countering Hegemony: An Analysis of the Film "Barbershop" as a Social Critique
   Hannah White Butler University. Faculty Sponsors: Casey Kelly Butler University
09:45 AM – Burning the White Picket Fence: Regeneration of the American Dream
   Miranda Flores Butler University. Faculty Sponsors: Kristin Swenson Butler University
10:00 AM – Cross-cultural Marketing Strategies in South Korea and America
   Ali Backscheider Butler University. Faculty Sponsors: Casey Kelly Butler University

Communication & Media Studies Session 2: Communicative Perspectives on Gender and the Body
Moderator: Casey Kelly
10:45 AM – 12:00 PM Jordan Hall 207
10:45 AM – An Examination of Perceptions Associated with Nose Piercings
   Caitlin Trainer Huntington University. Faculty Sponsors: Mike Rowley Huntington University
11:00 AM – Social Perception of Tattoos Based on Age
   Micah Christensen Huntington University. Faculty Sponsors: Mike Rowley Huntington University
11:15 AM – Are Traditional Gender Roles Sexist?
   Shawn Hudak Huntington University. Faculty Sponsors: Mike Rowley Huntington University
11:30 AM – Attractiveness in Today's Society
   Jillian Fetters Huntington University. Faculty Sponsors: Mike Rowley Huntington University
11:45 AM – Ms. Self-Esteem: A Study of the Major Influences in Today’s College Female
   Audrey Trout Huntington University. Faculty Sponsors: Mike Rowley Huntington University
Communication & Media Studies Session 3: Narrative, Ideology, and Framing in Contemporary Politics
Moderator: Casey Kelly
01:15 PM – 02:15 PM Jordan Hall 207

01:15 PM – Every Man a King: Progressive Appeals and Narrative Rationality
   Emma Metz Indiana University/Purdue University at Columbus. Faculty Sponsors: Anna Carmon Indiana University/Purdue University at Columbus

   Lauren Harvey Taylor University. Faculty Sponsors: Jessica Rousselow Taylor University

01:45 PM – Media Influences on Stem Cell Research and Opinions
   Elizabeth Hamilton Butler University. Faculty Sponsors: Kristen Hoerl Butler University

02:00 PM – Message Framing in Political Advocacy Campaigns: A Media Study of the 2014 Scottish Referendum for Independence from the United Kingdom
   Christine Todd Butler University. Faculty Sponsors: Rose Campbell Butler University

Communication & Media Studies Session 4: Communication and Interpersonal Relationships
Moderator: Casey Kelly
02:30 PM – 03:45 PM Jordan Hall 207

02:30 PM – Aftermath of Conflict: Communication of Interpersonal Conflict in an Organization
   Courtney Seiwert Indiana University/Purdue University at Columbus, Emma Metz Indiana University/Purdue University at Columbus. Faculty Sponsors: Anna Carmon Indiana University/Purdue University at Columbus

02:45 PM – Reading the Romantic Comedy as a Guide to Finding Love: The Development of Relationships and Ideals in Romantic Comedy
   Kathryn Bergamini Butler University. Faculty Sponsors: Kristin Swenson Butler University

03:00 PM – The Influence of Technology on Creating and Maintaining Long Distance Connections and Relationships
   Stephanie Yoder Huntington University. Faculty Sponsors: Mike Rowley Huntington University

03:15 PM – An Examination of Expletive Usage
   Breanna Amico Huntington University. Faculty Sponsors: Mike Rowley Huntington University

03:30 PM – Relational Dialectics in Roommate Relationships
   Clarissa Hunter Huntington University. Faculty Sponsors: Mike Rowley Huntington University
EDUCATION

Education I
Moderator: Susan Adams
09:30 AM – 10:30 AM Jordan Hall 336C
09:30 AM – How Social Interaction Impacts Literacy Learning in the Elementary Grades
   Megan Donisch Butler University. Faculty Sponsors: Susan Adamson Butler University
09:45 AM – How Can Teachers Help English Language Learners Transition Smoothly into American Schools?
   Amber Zimay Butler University, Katherine Nikodym Butler University. Faculty Sponsors: Susan Adams Butler University
10:00 AM – The Flipped Classroom: Perceptions of Teaching and Learning
   Daniel Johnson Butler University. Faculty Sponsors: Michelle Stigter Butler University
10:15 AM – Teaching to the Technological Demands of the 21st Century Classroom
   Michelle Trainor Butler University. Faculty Sponsors: Shelly Furuness Butler University

Education II
Moderator: Susan Adams
10:45 AM – 11:45 AM Jordan Hall 336C
10:45 AM – Learning Style Preferences: Individualizing Curriculum in Today’s Standardized Classrooms
   Erika Kahlenbeck Manchester University. Faculty Sponsors: Stacy Stetzel Manchester University
11:00 AM – Promoting STEM in K-3rd Grade
   Lainey Hooker Butler University. Faculty Sponsors: Catherine Pangan Butler University, Jessica McCormick Butler University
11:15 AM – Service Learning and its Transformative Effects on the College Experience
   Cassie Hailey Valparaiso University, Mary O'Brien Valparaiso University, Randi Charters Valparaiso University, Dashiauna Washington Valparaiso University. Faculty Sponsors: Kendre Israel Valparaiso University

ENGLISH LITERATURE & CREATIVE WRITING

English Literature & Creative Writing Session 1: Studies in the Novel
Moderator: Rocky Colavito
09:00 AM – 10:30 AM Jordan Hall 301
09:00 AM – The Lizzie Bennet Diaries: An Austen Classic for the Internet Age
   Emily Sumner Grace College. Faculty Sponsors: Paulette Sauders Grace College
09:15 AM – The Most Dangerous Predator: The Court of Chancery
   Molly Connor Hanover College. Faculty Sponsors: Melissa Eden Hanover College
09:30 AM – Virginia Woolf, Mrs. Dalloway, and Feminism
   Leah Sander Grace College. Faculty Sponsors: Paulette Sauders Grace College
09:45 AM – A Rose Refused
Megan Snyder Grace College. Faculty Sponsors: Paulette Sauders Grace College

English Literature & Creative Writing Session 2: Literature and Creative Writing
Moderator: Susan Sutherlin
09:00 AM – 10:30 AM Jordan Hall 303
09:00 AM – Love Sonnets
Anna Mannarino Grace College. Faculty Sponsors: Paulette Sauders Grace College
09:15 AM – Damn Francesca: Justice in Dante’s Inferno V
Luke Durfey Ball State University. Faculty Sponsors: Donald Gilman Ball State University
09:30 AM – Superpowers and the Chicago World's Fair: A Novel
Kathleen DeVries Grace College. Faculty Sponsors: Paulette Sauders Grace College

English Literature & Creative Writing Session 3: Film Studies
Moderator: Lee Garver
10:45 AM – 12:00 PM Jordan Hall 301
10:45 AM – A Psychological Experiment: An Analysis of the Belgium Film, Jeanne Dielman, 23 quai du Commerce, 1080 Bruxelles
Spencer Angsten Butler University. Faculty Sponsors: Lee Garver Butler University
11:00 AM – Italy's Realist Christians: Post-War Theology in Rome: Open City
Bob Barrick Butler University. Faculty Sponsors: Lee Garver Butler University
11:15 AM – The Age of Blossoms: Mrs. Chan's Transformation in In the Mood for Love
Brendan Cavanagh Butler University. Faculty Sponsors: Lee Garver Butler University
11:30 AM – “Alone and Back in His Social Class:” A Close-Up of Political Economy in the Film Industry
Lindsey VanWinkle Butler University. Faculty Sponsors: Lee Garver Butler University
11:45 AM – Kieślowski’s Three Colors Trilogy: The Experience of Isolation and the Quest for Meaning in the Contemporary World
Kelly Oden Butler University. Faculty Sponsors: Lee Garver Butler University

English Literature & Creative Writing Session 4: Drama Cornucopia
Moderator: Bill Walsh
10:45 AM – 12:00 PM Jordan Hall 303
10:45 AM – In, Around, and Between the Lines: An Analysis of Shakespearean Stage Direction Through "Macbeth" and "A Midsummer Night's Dream"
Allison Thayer Ball State University. Faculty Sponsors: Frank Felsenstein Ball State University
11:00 AM – Metaliminality: An Analysis on the Rites of Theatergoing and the Resulting Ritualistic Empathy
Michael Mead Valparaiso University. Faculty Sponsors: David Western Valparaiso University
11:15 AM – Transgender Temporalities & Gender Nonconformity in Early Modern Drama
Matt Metzler Miami University of Ohio. Faculty Sponsors: James Bromley Miami University of Ohio
11:30 AM – Holy Boy: A Play Based on the Life of St. Patrick
Grace McDillon Grace College. Faculty Sponsors: Paulette Sauders Grace College

English Literature & Creative Writing Session 5: Rhetoric, Film, and Trauma Literature
Moderator: Rocky Colavito
01:00 PM – 02:30 PM Jordan Hall 301
01:00 PM – Pay to Pray: Tech, Immortality and Celebrity in America’s Most Secretive Cult
  Cassidy Olson Butler University. Faculty Sponsors: Joseph Colavito Butler University
01:15 PM – Why am I Me and Not You? Humanity and Life Through the Wim Wender's Film, "Wings of Desire"
  Anna Zeller Butler University. Faculty Sponsors: Lee Garver Butler University
01:30 PM – Witnesses to Trauma: Kafka’s Trauma Victims and the Role of Community
  Emily Kile Butler University. Faculty Sponsors: Hilene Flanzbaum Butler University
01:45 PM – Communication in Cosmo: Panties, Penises, Party-Style, and Pathos
  Ella Paul Butler University. Faculty Sponsors: Joseph Colavito Butler University

English Literature & Creative Writing Session 6: Early American Literature
Moderator: Jim Keating
01:00 PM – 02:30 PM Jordan Hall 303
01:00 PM – Constructing an Economic Paradigm: Benjamin Franklin’s Rise to Public Fame
  James Hastings Flagler College. Faculty Sponsors: Wes King Flagler College
01:15 PM – Creative Bias and Artistic Individuality in the Poetry of Phillis Wheatley
  William Arbogast Flagler College. Faculty Sponsors: Wes King Flagler College, Lisa Baird Flagler College
01:30 PM – Deliberately Craving the Wrath of God in Puritan Society
  Elizabeth Doolittle Flagler College. Faculty Sponsors: Wes King Flagler College, Lisa Baird Flagler College

GENDER, WOMEN & SEXUALITY STUDIES

Gender, Women & Sexuality Studies Session 1
Moderator: Jeana Jorgenson
10:45 AM – 12:00 PM Jordan Hall 238
10:45 AM – Does Watching Sexually-Oriented Reality Television Programming Increase the Frequency of Viewers’ Sexual Activity?
  Stephannie Zamboti Valparaiso University, Caitlin Fitzpatrick Valparaiso University, Angelina Goheen Valparaiso University, Madeline Berger Valparaiso University. Faculty Sponsors: Kendre Israel Valparaiso University
11:00 AM – Rastafarian Roots in Jamaican Homophobia
  KaLeigh Hurley Franklin College. Faculty Sponsors: Karen Burgard Franklin College
11:15 AM – Identity Politics and its Discontents: Muslim Women Bodies and the Veil
Salma Ghalyoun DePaul University. Faculty Sponsors: Mallory Warner DePaul University

HISTORY & CLASSICS

History and Classics Session 1: International Conflict and Cross-cultural Interaction
Moderator: Paul Hanson
09:00 AM – 10:15 AM Jordan Hall 236
09:00 AM – Godly Brutality: The Cromwellian Conquest of Ireland 1649-1650
William Scupham Valparaiso University. Faculty Sponsors: Colleen Seguin Valparaiso University
John Lavender-Stott Juniata College. Faculty Sponsors: Douglas Stiffler Juniata College
09:30 AM – Consequence, Compromise, and Combination: The American Decision to Blockade Cuba During the Cuban Missile Crisis of 1962
Wilson Alexander Taylor University. Faculty Sponsors: Alan Winquist Taylor University
Annie Frodeman Earlham College. Faculty Sponsors: Chuck Yates Earlham College

History and Classics Session 2: Race, Civil Rights and Religion in U.S. History
Moderator: Bruce Bigelow
10:30 AM – 11:45 AM Jordan Hall 236
10:30 AM – Fraktur of Rites of Passage: The Effects of Religion on Record Keeping in 18th Century Pennsylvania Dutch Society
Greta Lohe Taylor University. Faculty Sponsors: Alan Winquist Taylor University
10:45 AM – Lew Wallace: An Unsung Hoosier Hero
Jordan Lee Butler University. Faculty Sponsors: Bruce Bigelow Butler University
11:00 AM – Chapel Hill and the Bowdlerized Image of Civil Rights
Michael Grathwohl Earlham College. Faculty Sponsors: Phyllis Boanes Earlham College
11:15 AM – In Terms of Black and White: Race, Citizenship, and Dissent in Great War America, 1917-1919
Evan Comer Butler University. Faculty Sponsors: Vivian Deno Butler University

History and Classics Session 3: Gods, Faith and Witches in History and Literature
Moderator: Christopher Bungard
01:15 PM – 02:45 PM Jordan Hall 236
01:15 PM – Creating Caesar's Image
Caitlyn Carmony Butler University. Faculty Sponsors: Christopher Bungard Butler University
01:30 PM – One God, Three Faiths, and a Misinterpretation of the Divine
David Mills University of Arkansas - Fayetteville. Faculty Sponsors: Sarwar Alam University of Arkansas - Fayetteville

01:45 PM – Graeco-Roman Gods in Today's World
Maia Swanson Butler University. Faculty Sponsors: Christopher Bungard Butler University

02:00 PM – Witchcraft and Pastoral Fears
Brian Forman Earlham College. Faculty Sponsors: Chuck Yates Earlham College

02:15 PM – Medievalism, War, and Cheese: How Joan of Arc Inspires Nations
ShaNell Brazo Manchester University. Faculty Sponsors: Janina Traxler Manchester University

02:30 PM – Struggling, Singularity, and the Entrapment of Individualities: The Characters of Shakespeare’s Hamlet
Justin Schiess Ball State University. Faculty Sponsors: Donald Gilman Ball State University

History and Classics Session 4: Gender, Sexuality, Sleep and Death in Cross-cultural Perspective
Moderator: Vivian Deno
01:15 PM – 02:45 PM Jordan Hall 238

01:15 PM – Death Comes Dressed in Black
David Mills University of Arkansas - Fayetteville. Faculty Sponsors: Sarwar Alam University of Arkansas - Fayetteville

01:30 PM – “Teach Them to Serve and They’ll Learn How to Sell:” Developing a Hierarchy of 1920’s Salesgirls, Departments Stores, Customers, and the Modern Retail World
Anne Vierse Butler University. Faculty Sponsors: Vivian Deno Butler University

01:45 PM – Protecting the Fairer Sex: Working Women, Protective Legislation, and its Limits in Progressive Era Indiana
Abby Neuman Butler University. Faculty Sponsors: Vivian Deno Butler University

02:00 PM – A Forgotten People: Men and Same-Sex Sexuality in Colonial America
Jeffry Neuhouser Taylor University. Faculty Sponsors: Alan Winquist Taylor University

02:15 PM – The Representation of the Prostitute in Weimar Cinema during the Post-Inflationary Period
Stacey Hauff Earlham College. Faculty Sponsors: Chuck Yates Earlham College

02:30 PM – Neurasthenia, Eugenics, and the Twilight Sleep Method, 1906-1915
Amelia Schwandt Butler University. Faculty Sponsors: Vivian Deno Butler University
INTERNATIONAL STUDIES

International Studies Session 1: Civil Conflicts: Domestic and International Influences
Moderator: Monte Broaded
09:00 AM – 10:15 AM Jordan Hall 242
09:00 AM – The Syrian Resistance Coalition: An Unstable Partnership
David Reas Butler University. Faculty Sponsors: Robert Oprisko Butler University
09:15 AM – Liberation Theology: Why Should the Nations Be Glad?
Marianne Richardson Butler University. Faculty Sponsors: Paul Valierre Butler University
09:30 AM – The United States’ Isolation from the Cuban Way of Life
Spencer Campfield University of Indianapolis. Faculty Sponsors: Sarah Ohmer University of Indianapolis
09:45 AM – The Madres de Plaza de Mayo and the Organization of American States: A Meeting Point for Human Rights Organizations and International Law in Democratic Sustainability
Olivia Grace Wolfe Butler University. Faculty Sponsors: Robert Oprisko Butler University
10:00 AM – The Role of Propaganda in the British Response to the Mau Mau Rebellion
Amelia Hussein DePaul University. Faculty Sponsors: Shiera Malik DePaul University

International Studies Session 2: Culture and State in International Relations Theory
Moderator: Eloise Sureau-Hale
10:30 AM – 11:45 AM Jordan Hall 242
10:30 AM – Honor and Rebellion in the Theater: Mozart, Beaumarchais, and Figaro
Robert Fenton Butler University. Faculty Sponsors: Robert Oprisko Butler University
10:45 AM – Soundtrack of the Revolution
Sara Doverspike Butler University. Faculty Sponsors: Robert Oprisko Butler University
11:00 AM – The Missing Logic of Action: Emotion
Delaney Barr Butler University. Faculty Sponsors: Robert Oprisko Butler University
11:15 AM – The State as a Person: The Social and Biological
Kristopher Kaliher Butler University. Faculty Sponsors: Robert Oprisko Butler University

International Studies Session 3: The Global in the Local
Moderator: Monte Broaded
01:15 PM – 02:30 PM Jordan Hall 242
01:15 PM – Analysis of American Born Asians & Asian Internationals: Honor, Success, and Identity
Mick Wang Butler University. Faculty Sponsors: Robert Oprisko Butler University
01:30 PM – Eritrean Resettlement in Indianapolis
John Traylor Butler University. Faculty Sponsors: Robert Oprisko Butler University
01:45 PM – Undocumented Immigrants' Access to Education in Indiana
Hannah Weigle Butler University. Faculty Sponsors: Antonio Menendez-Alarcon Butler University
02:00 PM – The Super Bowl, Sex Trafficking, and You
Leslie Cyranowski Butler University. Faculty Sponsors: Robert Oprisko Butler University

MODERN FOREIGN LANGUAGE

Modern Languages 1
Moderator: Katie Fizer and Denis Boateng
09:00 AM – 10:30 AM Jordan Hall 348
09:00 AM – Dictatorship to Democracy: La Transición Española in Chus Gutiérrez’s Film
El Calentito.
   Maisie DeMass Butler University. Faculty Sponsors: Linda Willem Butler University
09:15 AM – La Movida Madrileña and Post-Franco Cultural Liberation, As Seen in Chus
Gutiérrez’s Film, El Calentito
   Lauren Stark Butler University. Faculty Sponsors: Linda Willem Butler University
09:30 AM – Immigration in Spain As Seen Through the Film Amador
   Caitlin Weichelt Butler University. Faculty Sponsors: Linda Willem Butler University
09:45 AM – Prostitution and Immigration in Spain as Seen Through Two Films by
Fernando Leon de Aranoa
   Megan Hosack Butler University. Faculty Sponsors: Linda Willem Butler University
10:00 AM – The "Cántigas de Santa María:" A Genre Study
   Patrick Stroud Wabash College. Faculty Sponsors: Ivette Wilson Wabash College
10:15 AM – La Mujer en Becquer y Pardo Bazan
   Kathryn Boomershine University of Indianapolis. Faculty Sponsors: Sarah Ohmer
   University of Indianapolis

Modern Languages 2
Moderator: Joe Boozell and Justin Kotiw
09:00 AM – 10:30 AM Jordan Hall 344
09:00 AM – One Nation, One Language: The Effects of the English on the French
Language from 1914 to 1945
   Julia Gresik Butler University. Faculty Sponsors: Eloise Sureau-Hale Butler University
09:15 AM – Don Quixote: Improving Medical Care One Reading at a Time
   Zachary Vega Wabash College. Faculty Sponsors: Ivette Wilson Wabash College
09:30 AM – Los Incas y la medicina: el Perú antiguo y su influencia en prácticas médicas modernas
   Tiera Patterson Butler University. Faculty Sponsors: Gabriela Muniz Butler University
09:45 AM – The Structure of the Latin American Family: Past, Present and Future
   Rachel Walcott Hanover College. Faculty Sponsors: Eduardo Santa Cruz Butler University
10:00 AM – Sor Juana y la Iglesia Católica: una relación complicada
   Briana Jurrema Franklin College. Faculty Sponsors: Kathryn Johnston Franklin College
10:15 AM – The Racial Race for Rank with an Ethnic Twist
   Amelia Smith Hanover College. Faculty Sponsors: Eduardo Santa Cruz Butler University
Modern Languages 3
Moderator: Dr. Sarah Painitz
09:00 AM – 10:00 AM Jordan Hall 278
09:00 AM – Visually Working Through the German Past by Generations: "Holocaust" and "War of Extermination, Crimes of the Wehrmacht 1941-1944"
   Olivia Grace Wolfe Butler University. Faculty Sponsors: Sarah Painitz Butler University
09:15 AM – Media Hype and Violence: A Study of 1970's German and 9/11
   Kristopher Kaliher Butler University. Faculty Sponsors: Sarah Painitz Butler University
09:30 AM – Neues Bauen: Functionality Meets Form in Modern German Architecture
   Kayla Nienhaus Butler University. Faculty Sponsors: Sarah Painitz Butler University
09:45 AM – The German Economic Miracle
   Michael Andrews Butler University. Faculty Sponsors: Sarah Painitz Butler University

Modern Languages 4
Moderator: Justin Kotiw and Skylar Kobren
10:45 AM – 12:00 PM Jordan Hall 348
10:45 AM – Las sociedades nuevas del emperador – una comparación de la sociedad Española a través de los cuentos de Manuel y Cervantes
   Brenynn Bailey Franklin College. Faculty Sponsors: Daniel Alsop Franklin College
11:00 AM – "Una Foto de Guerra:" La Representación de Memoria en la Obra de Carlos Ruiz Zafón
   Lauren Fellers Southwestern University. Faculty Sponsors: Katy Ross Southwestern University
11:15 AM – Reality and Fiction: How Jorge Luis Borges and Julio Cortázar Distinguish and Unite the Two
   Adam Barnes Wabash College. Faculty Sponsors: Ivette Wilson Wabash College
11:30 AM – La Novela Negra: ¿una Verdadera Representación de la Vida en México?
   Abbey Rimstidt Franklin College. Faculty Sponsors: Jarrod Brown Franklin College
11:45 AM – Las mujeres, victimas o heroes?
   Amanda Owen Franklin College. Faculty Sponsors: Agueda Mayan Franklin College

MUSIC & DANCE

Music and Dance I
Moderator: Dr. Nicholas Johnson
09:00 AM – 10:30 AM Lilly Hall 120
09:00 AM – From Pythagoras to Johann Sebastian Bach: An Exploration in the Development of Temperament and Tuning
   Molly Anderson Butler University. Faculty Sponsors: Rusty Jones Butler University
09:15 AM – An Exploration of the Thematic Shift in Monteverdi’s Operas: A Criticism of Humanity
   David Dunlap Butler University. Faculty Sponsors: Nicholas Johnson Butler University
09:30 AM – Ecrite par Madame Bachen. Son Espouse: Anna Magdalena, Sexism, and the Cello Suites
  Aliah Ajamoughli Butler University. Faculty Sponsors: Nicholas Johnson Butler University

09:45 AM – Clave in the Works of Herbie Hancock and Other American Musicians
  Zachary Gay Butler University. Faculty Sponsors: Matt Pivec Butler University

10:00 AM – Contracts v. Cash Flow: Legal Cases of 18th Century London Opera Companies
  Rebekah Mackey Butler University. Faculty Sponsors: Nicholas Johnson Butler University

Music and Dance II
Moderator: Dr. James R. Briscoe
09:00 AM – 10:30 AM Lilly Hall 124
09:00 AM – "Don't You Think the Violin is Better than the Typewriter?:" How Women Orchestras Challenged Gender Inequality and the Indoctrinated Hierarchy in Instrumental Art Music
  Donald Bradley Butler University. Faculty Sponsors: James Briscoe Butler University

09:15 AM – A Brief Study of Orchestration in the Operas of Giuseppe Verdi
  Alberto Mantovano Butler University. Faculty Sponsors: James Briscoe Butler University

09:30 AM – Wagner's Theory and Practice of Drama
  Garrett Oberst Butler University. Faculty Sponsors: James Briscoe Butler University

09:45 AM – On This Island: The First Autobiography of Benjamin Britten
  Alaina Bartkowiak Butler University. Faculty Sponsors: Kathie Kelton Butler University

10:00 AM – Revisiting Modernism and the Ballets Russes: What Contemporary Choreographers Can Learn from Diaghilev
  Kelly Oden Butler University. Faculty Sponsors: Lee Garver Butler University

10:15 AM – Poulenc Sonata for Oboe and Piano: Analysis and Performance Interpretation
  Jessica Robinson Butler University. Faculty Sponsors: Doug Spaniol Butler University

Music and Dance III
Moderator: Dr. Nicholas Johnson
10:45 AM – 12:00 PM Lilly Hall 120
10:45 AM – German Folksongs as Nazi Propaganda in the Hitler Jugend Movement
  Patrick Peterson Butler University. Faculty Sponsors: Nicholas Johnson Butler University

11:00 AM – Female African American Art Song Composers
  Nellie Shuford Butler University. Faculty Sponsors: Kathie Kelton Butler University

11:15 AM – Musical, Textual, and Historical Allusions to Freemasonry in The Magic Flute
  Kathryn Chamberlain Butler University. Faculty Sponsors: Nicholas Johnson Butler University

11:30 AM – The New Art Song: a 21st Century Interpretation
  Regina Ceragioli Butler University. Faculty Sponsors: Kathie Kelton Butler University

11:45 AM – Prog Metal: Developing an Analytical Approach
  Nathan Smith Butler University. Faculty Sponsors: Rusty Jones Butler University
Music and Dance IV
Moderator: Dr. James R. Briscoe
10:45 AM – 12:00 PM Lilly Hall 124
10:45 AM – Exploring Community Engagement in the Indianapolis Opera Scene
Nicole Vasconi Butler University. Faculty Sponsors: Rose Kleiman Butler University
11:00 AM – Blankets: A Live-Action Graphic Novel
John Albert Harris Butler University. Faculty Sponsors: Michael Schelle Butler University
11:15 AM – Paths To Self-Determination: Tuareg Music
Atama Abdourahmane Franklin College. Faculty Sponsors: Kevin R. Burke Franklin College
11:30 AM – Listening to a Revolution: How the Plastic People Impacted Czechoslovakian History
Leilah-Olivia Hendricks Franklin College. Faculty Sponsors: Kevin R. Burke Franklin College
Aliah Ajamoughli Butler University. Faculty Sponsors: Rusty Jones Butler University, Sally Childs-Helton Butler University

PHARMACY, HEALTH SCIENCES & EXERCISE SCIENCE
Pharmacy/Health Sciences Session 1A
Moderator: David Reeves
08:30 AM – 10:00 AM Gallahue Hall 106
08:30 AM – Carboplatin's Effect on Toxicity After Change in Dosing
Allison Buida Butler University. Faculty Sponsors: David Reeves Butler University
08:45 AM – The Effect of Topical Analgesics on Maximum Contractile Strength
Kolton Chapman Hanover College. Faculty Sponsors: Bryant Stamford Hanover College
09:00 AM – Aseptic Technique Validation Among Pharmacy Students: a Multi-Center Evaluation
Brittany Lovko Butler University, Hannah Kuhn Butler University, Laura Gauntt Butler University. Faculty Sponsors: Angela Ockerman Butler University
09:15 AM – Involvement of Pharmacists with a Community Paramedicine Heart Failure Pilot Program at a Safety Net Hospital
Emily Christenberry Butler University, Lauren Wolf Butler University, Shannon Eaves Purdue University, Alyson Clough Purdue University. Faculty Sponsors: Carrie Jung Butler University, Todd Walroth Butler University
09:30 AM – Meaning of Medication and Medication Adherence in Mature African American Kinship Caregivers
Olubukola Akinwekomi Butler University. Faculty Sponsors: Priscilla Ryder Butler University
09:45 AM – Retrospective Chart Review of Venous Thromboembolism Prophylaxis Pre and Post Electronic Health Record Implementation
Natalie Schwarber Butler University, Alicia Dethloff Butler University, Joseph Tucker Butler University, Katherine Kielts Butler University. Faculty Sponsors: David Reeves Butler University, Lindsay Saum Butler University

Pharmacy/Health Sciences Session 1B
Moderator: Annette McFarland
08:30 AM – 10:00 AM Pharmacy & Health Sciences 103
08:30 AM – Public Awareness of the Safety of Energy Drinks
Beverly Bortz Butler University. Faculty Sponsors: Annette McFarland Butler University
08:45 AM – “Play Spent” – An Online Poverty Simulation and its Influence on Butler University College of Pre-Pharmacy Students’ Attitudes Toward the Underserved Population
Rachael Fleury Butler University, Stephanie Samuels Butler University. Faculty Sponsors: Carriann Smith Butler University
09:00 AM – Adherence to Stroke Clinical Practice Guidelines for Acute Stroke Management at IU Methodist Hospital
Lauren Verner Butler University, Katie Gordon Butler University. Faculty Sponsors: Kevin Tuohy Butler University
09:15 AM – Assessing the Pharmacist’s Role in a Post-Discharge Clinic
Gary Bunker Butler University, Matt Heinsen Butler University, Shawn Ferguson Butler University. Faculty Sponsors: Alison Walton Butler University, Jessica Wilhoite Butler University
09:30 AM – Effects of Aging and Activity on the Hamstring: Quadriceps Ratio
Elyse Weddle Hanover College. Faculty Sponsors: Molly Winke Hanover College
09:45 AM – Going for the GOLD: Overcoming the Hurdles of Medication Adherence
Ka Yang Butler University, Melissa Thomas Butler University, Erin Coffman Butler University. Faculty Sponsors: Annette McFarland Butler University

Pharmacy/Health Sciences Session 1C
Moderator: Jeanne VanTyle
08:30 AM – 10:00 AM Pharmacy & Health Sciences 150
08:30 AM – A Health Education Program for an Underserved, Diabetic Population in Order to Improve Health Knowledge—A Feasibility Study
Rachel Pendry Butler University. Faculty Sponsors: Jeanne VanTyle Butler University
08:45 AM – Assessment of Weight Loss Tools Available Online
Eric Garst Butler University, Brad Kuhns Butler University, Will Armstrong Butler University, Austin Weaver Butler University. Faculty Sponsors: Carrie Maffeo Butler University
09:00 AM – Evaluation of the Safety of Probiotic Use in Transplant Recipients
Judy Motanya Butler University. Faculty Sponsors: Jane Gervasio Butler University
09:15 AM – Development of Interprofessional Learning Experiences Among Pharmacy and Physician Assistant Students on Clinical Rotations
Jenna Melton Butler University. Faculty Sponsors: Julie Koehler Butler University
09:30 AM – The Effects of Lifestyle Intervention, Self-Efficacy, and Supervision on an Individual with Type 2 Diabetes.
Samantha Peterman Hanover College. Faculty Sponsors: Molly Winke Hanover College

09:45 AM – Familial Precocious Puberty: Case Reports and Literature Review
Annie Strahla Butler University. Faculty Sponsors: Jeanne VanTyle Butler University

Pharmacy/Health Sciences Session 1D
Moderator: Tracy Sprunger
08:30 AM – 10:00 AM Pharmacy & Health Sciences 156
08:30 AM – Effect of Generation Rx Programming on Knowledge and Attitudes Surrounding Prescription Drug Misuse Among Butler Students
Katie Jane Blum Butler University, Andrew Gonzales Butler University, Kelly Kyrouac Butler University, Sora Lyu Butler University. Faculty Sponsors: Tracy Sprunger Butler University

08:45 AM – A Comparison of the Safety and Efficacy of P2Y12 Inhibitors in Patients Undergoing Percutaneous Coronary Intervention: A Retrospective Chart Review
Jessica Wilimczyk Butler University, Adam Romesser Butler University, Jacob Mankin Butler University, Claire McCarthy Butler University. Faculty Sponsors: Alex Ansara Butler University

09:00 AM – The Impact of Health Literacy Level in Patients with Chronic Obstructive Pulmonary Disease
Laura Flynn Butler University. Faculty Sponsors: Tracy Costello Butler University

09:15 AM – Acute Effects of Static, Dynamic, and PNF Stretching on Standing Long Jump and Agility
Chloe Hutchinson Hanover College. Faculty Sponsors: Molly Winke Hanover College

09:30 AM – Prescription Stimulant Use at Butler University
Rachel Pritchett Butler University, Brianna Patton Butler University, Melissa Bradbury Butler University. Faculty Sponsors: Amy Peak Butler University

09:45 AM – Safety Outcomes in Children Receiving Vancomycin Therapy
Allison Gritzman Butler University. Faculty Sponsors: Chad Knoderer Butler University, Kristen Nichols Butler University

Pharmacy/Health Sciences Session 1E
Moderator: Kim Beck
08:30 AM – 10:00 AM Pharmacy & Health Sciences 204
08:30 AM – Evaluation of Nutrition Education in Colleges of Pharmacy in the U.S.
Cierra Coffman Butler University. Faculty Sponsors: Jane Gervasio Butler University

08:45 AM – A Comparison of the Safety and Efficacy of P2Y12 Inhibitors in Patients Undergoing Percutaneous Coronary Intervention: A Retrospective Chart Review
Jessica Wilimczyk Butler University, Adam Romesser Butler University, Jacob Mankin Butler University, Claire McCarthy Butler University. Faculty Sponsors: Alex Ansara Butler University
09:00 AM – Colon Cancer Prevention Education and Development of Updated Educational Materials for Patient Personal Health Portfolios
Laura Weatherford Butler University, Amanda Miller Butler University, Jessie O’Neal Butler University. Faculty Sponsors: Carrie Maffeo Butler University, Michelle Piel Butler University

09:15 AM – Effect of a Third-Party Observer on Perceived Exertion and Work Output
Andrew Ridner Hanover College. Faculty Sponsors: Bryant Stamford Hanover College

09:30 AM – The Search for Small-Molecule Inhibitors of HSF: A Novel Cell-Based Assay for Use in High-Throughput Screens
Ivan Dixon Butler University. Faculty Sponsors: Andrew Erkine Butler University

09:45 AM – Safe Switch Initiative: Medication Safety Focusing on Therapeutic Interchange in Ambulatory Care
Tara Haworth Butler University, Lauren Pijut Butler University. Faculty Sponsors: Alison Walton Butler University, Amanda Place Butler University

Pharmacy/Health Sciences Session 1F
Moderator: Jarrett Amsden

08:30 AM – 10:00 AM Pharmacy & Health Sciences 205
08:30 AM – Comparative Outcomes of C. difficile Infected Patients with NAP1 vs. Non-NAP1 strains
Benjamin Cottongim Butler University. Faculty Sponsors: Jarrett Amsden Butler University

08:45 AM – Evaluation of the Safety and Efficacy of the New Oral Anticoagulants versus Warfarin in Patients Getting an AV Node Ablation
Veronica Ma Butler University, Jacob Danks Butler University. Faculty Sponsors: Alex Ansara Butler University

09:00 AM – Grip Strength and Sports Performance
Paige Byers Hanover College. Faculty Sponsors: Molly Winke Hanover College

09:15 AM – Pharmacist’s Guide to Medication Toxicity in Animals
Maria Jansen Butler University, Sarah Luigs Butler University. Faculty Sponsors: Stephanie Enz Butler University

09:30 AM – An Evaluation of Fidaxomicin Use in a Community Health System
Sarah Boyd Butler University. Faculty Sponsors: Jarrett Amsden Butler University

09:45 AM – Cross Education: Transfer from the Non-Dominant to Dominant Homologous Muscles
Kevin Daege Hanover College. Faculty Sponsors: Bryant Stamford Hanover College

Pharmacy/Health Sciences Session 1G
Moderator: Kena Lanham

08:30 AM – 10:00 AM Pharmacy & Health Sciences 212
08:30 AM – Additional Certification Programs Incorporated into the Pharmacy Curriculum
Caitlin Thomas Butler University. Faculty Sponsors: Trish Devine Butler University

08:45 AM – Evaluation of Assisted Living Facilities and the Role of a Consultant Pharmacist in Midwestern States
Tiffany McDonald Butler University. Faculty Sponsors: Laurie Pylitt Butler University
09:00 AM – Butler University Student Attitudes Toward People in Poverty: Effectiveness of an Online Simulation with Lecture for Changing Student Attitudes Towards People in Poverty
  Victor Navarro Butler University, Nicholas Meyers Butler University, Evan Keller Butler University. Faculty Sponsors: Carriann Smith Butler University

09:15 AM – Effect of a Personalized Diabetes Action Plan in Patients with Elevated Hemoglobin A1cs
  Matthew Olson Butler University. Faculty Sponsors: Deborah Zeitlin Butler University

09:30 AM – Effect of Physician-Patient Relationship and Adherence in Hypertension Patients
  Jessa Manning Hanover College. Faculty Sponsors: Molly Winke Hanover College

09:45 AM – Eptifibatide in Acute Coronary Syndrome
  Brooke Stevens Butler University, Erica Dugdale Butler University. Faculty Sponsors: Kena Lanham Butler University

Pharmacy/Health Sciences Session 2A
Moderator: Meghan Bodenberg
10:15 AM – 11:45 AM Gallahue Hall 106
10:15 AM – Retrospective Chart Review of Venous Thromboembolism Prophylaxis Pre and Post Electronic Health Record Implementation
  Natalie Schwarber Butler University, Alicia Dethloff Butler University, Joseph Tucker Butler University, Katherine Kielts Butler University. Faculty Sponsors: David Reeves Butler University, Lindsay Saum Butler University

10:30 AM – Achievement of Desired Peak to MIC Ratios in Pediatric Aminoglycoside Dosing Regimens in Children: a Retrospective Cohort Study
  Jennifer Tassell Butler University. Faculty Sponsors: Chad Knoderer Butler University, Kristen Nichols Butler University

10:45 AM – The Effect of Cold Versus Hot Water Immersion on Lower Extremity Balance
  Kelsey Wagner Hanover College. Faculty Sponsors: Bryant Stamford Hanover College, Molly Winke Hanover College

11:00 AM – Development and Assessment of a Medicinal Chemistry Ancillary Workbook for the RX318: Introduction to Principles of Drug Action Course
  Selma Mitiche Butler University. Faculty Sponsors: Kimberly Beck Butler University

11:15 AM – That's Not My Medicine!
  Chelsea Hutchison Butler University. Faculty Sponsors: Dennis Gardner Butler University

11:30 AM – Testing the Effects of “Blind” Weight Lifting on Collegiate Football Players
  Matt McConnell Hanover College. Faculty Sponsors: Molly Winke Hanover College

Pharmacy/Health Sciences Session 2B
Moderator: Jarrett Amsden
10:15 AM – 12:00 PM Pharmacy & Health Sciences 103
10:15 AM – Retrospective Comparative Cohort of Concomitant Piperacillin-Tazobactam and Vancomycin Use in Acute Kidney Injury
  Sarah Cocke Butler University, Jessica Tyson Butler University. Faculty Sponsors: Jarrett Amsden Butler University, Kelsey Lyon Butler University
10:30 AM – Snappy FACTs
Sarah Cox Butler University, Emily Gillman Butler University. Faculty Sponsors: Jane Gervasio Butler University

10:45 AM – Assessing Pharmacists’ Knowledge and Perception on the Safety and Efficacy of Medication Use During Lactation
Courtney Morse Butler University, Kelly Saha Butler University. Faculty Sponsors: Chad Knoderer Butler University

11:00 AM – Butler University Pharmacy Immersion Camp 2013
Linh Nguyen Butler University, Sara Wright Butler University. Faculty Sponsors: Chad Knoderer Butler University

11:15 AM – Development of an Asthma Care Clinic for Underserved Patients
Germaine Williams Butler University. Faculty Sponsors: Jeanne VanTyle Butler University

11:30 AM – Impact of Barcode Scanning on Safety in the Centralized Breast Milk Lab
Andrew Teare Butler University. Faculty Sponsors: Jane Gervasio Butler University

Pharmacy/Health Sciences Session 2C
Moderator: Cathy Ramey
10:15 AM – 12:00 PM Pharmacy & Health Sciences 150
10:15 AM – Nafcillin Continuous Infusion Versus Intermittent Infusion Therapy in Pediatric Patients
Lindsey House Butler University. Faculty Sponsors: Chad Knoderer Butler University, Kristen Nichols Butler University

10:30 AM – Determining an Initial Dosing Recommendation for Vancomycin in Obese Patients
Lauren Haberkorn Butler University, Jacob Latham Butler University, Andrew Houck Butler University, Meagan Doolin Butler University. Faculty Sponsors: Kendra Atkinson Butler University

10:45 AM – Evaluation of Sensory Impairment Activities in the Pharmacy Curriculum
Ashley Holmes Butler University. Faculty Sponsors: Cathy Ramey Butler University

11:00 AM – Preconception Health: Do Women Receive Care Too Late?
Katelyn Felt Butler University, Allison Bresler Butler University. Faculty Sponsors: Jeanne VanTyle Butler University

11:15 AM – Evaluation of Student Responses to a Hypoglycemic Event During the Diabetes Simulation at Butler University
Colleen Sayer Butler University. Faculty Sponsors: Cathy Ramey Butler University

11:30 AM – Impact of a Periodized Resistance Training Program on Salivary Testosterone Levels in a Male with Moderate Chronic Obstructive Pulmonary Disease (COPD)
Aaron Kuzel Bellarmine University. Faculty Sponsors: Mark Kaelin Bellarmine University
Pharmacy/Health Sciences Session 2D
Moderator: Carrie Maffeo
10:15 AM – 12:00 PM Pharmacy & Health Sciences 156
10:15 AM – Effect of Generation Rx Programming on Knowledge and Attitudes Surrounding Prescription Drug Misuse Among Butler Students
   Katie Jane Blum Butler University, Andrew Gonzalez Butler University, Kelly Kyrouac Butler University, Sora Lyu Butler University. Faculty Sponsors: Tracy Sprunger Butler University
10:30 AM – A Study of Differences in Exam Preparation of Butler University Pre-Professional and Professional Pharmacy Students
   Mit Patel Butler University. Faculty Sponsors: Laurie Pylitt Butler University
10:45 AM – Long-Term Safety Outcomes in Pediatric Patients with Early Acute Kidney Injury After Vancomycin Treatment
   Samantha Christie Butler University. Faculty Sponsors: Chad Knoderer Butler University, Kristen Nichols Butler University
11:00 AM – Assessment of Weight Loss Tools Available Online
   Eric Garst Butler University, Brad Kuhns Butler University, Will Armstrong Butler University, Austin Weaver Butler University. Faculty Sponsors: Carrie Maffeo Butler University
11:15 AM – The Effect of Color Stimuli on Physical Performance
   Kathleen Brinegar Hanover College. Faculty Sponsors: Molly Winke Hanover College
11:30 AM – Determining an Initial Dosing Recommendation for Vancomycin in Obese Patients
   Lauren Haberkorn Butler University, Jacob Latham Butler University, Andrew Houck Butler University, Meagan Doolin Butler University. Faculty Sponsors: Kendra Atkinson Butler University

Pharmacy/Health Sciences Session 2E
Moderator: Alex Isaacs
10:15 AM – 12:00 PM Pharmacy & Health Sciences 204
10:15 AM – Utilization of Web-Based Modules Prior to Ambulatory Care Advanced Pharmacy Practice Experiences
   Rebecca Taylor Butler University, Bethany Peshel Butler University. Faculty Sponsors: Alex Isaacs Butler University, Alison Walton Butler University
10:30 AM – A National Survey of Antimicrobial Dosing Strategies at Pediatric Institutions
   Bonnie Kaminsky Butler University, Jaclyn Hubbard Butler University. Faculty Sponsors: Chad Knoderer Butler University, Kristen Nichols Butler University
10:45 AM – Appropriate Use of Bivalirudin in Catheterization Procedures
   Kristin Howard Butler University. Faculty Sponsors: Kena Lanham Butler University
11:00 AM – Correlation of Treatment Dose Enoxaparin with Anti-Xa Concentrations In Adult Hemodialysis Inpatients
   Miroslav Anguelov Butler University, Paul Brumley Butler University, Jason Hecht Butler University. Faculty Sponsors: Dane Shiltz Butler University
11:15 AM – Globalization and Human Infectious Disease
   Jocelyne Hanquier Marian University. Faculty Sponsors: Pierre Atlas Marian University
11:30 AM – The Effect of Body Composition, Strength, and Fitness on Glucose Clearance
Ethan Waltz Hanover College. Faculty Sponsors: Bryant Stamford Hanover College

Pharmacy/Health Sciences Session 2F
Moderator: Sheel Patel
10:15 AM – 12:00 PM Pharmacy & Health Sciences 205
10:15 AM – Assessing Learning Styles of Pharmacy Students Using the VARK Questionnaire
Blaire Bell Butler University, Joshua Koch Butler University, Brandon Green Butler University. Faculty Sponsors: Sheel Patel Butler University
10:30 AM – Stimulation of ERK Phosphorylation by Isoproterenol and Select β-Blockers at the β-2 Adrenergic Receptor is Dependent on Receptor Internalization
Nathan Watson Butler University. Faculty Sponsors: Medhane Cumbay Butler University
10:45 AM – Impact of Pharmacist Assessment of Influenza and Pneumococcal Vaccination Status with Intervention on Vaccination Rates for Patients Admitted to the Internal Medicine Service
Rachel Weber Butler University, Kathryn Hauenstein Butler University. Faculty Sponsors: Carrie Jung Butler University
11:00 AM – Medication Therapy Management: Congestive Heart Failure
Brooke Watson Butler University. Faculty Sponsors: Joseph Jordan Butler University
11:15 AM – Role of Simulation in Changing Students' Attitudes and Approaches to Poverty
Brandon Selvia Butler University. Faculty Sponsors: Carriann Smith Butler University

Pharmacy/Health Sciences Session 2G
Moderator: Darin Ramsey
10:15 AM – 12:00 PM Pharmacy & Health Sciences 212
10:15 AM – Assessment of Knowledge and Perceptions of Prescription and Over-the-Counter Drug Use and Safety Among Indiana Elementary School Students and Parents
Cathryn Williamson Butler University, Maggie Criss Butler University, MyLe Dao Butler University, Alicia Wojciechowski Butler University. Faculty Sponsors: Darin Ramsey Butler University
10:30 AM – Evaluation of an Interactive Puzzle-Based Approach to Reinforcing Steroid Structure-Activity Relationships
Christian Krenk Butler University. Faculty Sponsors: Kimberly Beck Butler University
10:45 AM – Assessment of Knowledge and Perceptions of Prescription and Over-the-Counter Drug Use and Safety Among Indiana Elementary School Students and Parents
Cathryn Williamson Butler University, Maggie Criss Butler University, MyLe Dao Butler University, Alicia Wojciechowski Butler University. Faculty Sponsors: Darin Ramsey Butler University
11:00 AM – The Impact of Exercise on Glucose Clearance
Antonio Ehrlich Hanover College. Faculty Sponsors: Bryant Stamford Hanover College
11:15 AM – Assessment of Prescription Stimulant Abuse in Medical School Students
Jared Stratman Butler University, Daniel Zinn Butler University. Faculty Sponsors: Darin Ramsey Butler University
PHILOSOPHY AND RELIGION

Philosophy and Religion Session 1
Moderator: Tiberiu Popa
09:30 AM – 10:30 AM Jordan Hall 340
09:30 AM – Window on Eternity: A Study in the Unique Characteristics of Orthodox Christian Iconography
   Moira Frazier Butler University. Faculty Sponsors: Paul Valliere Butler University
09:45 AM – Killing God (An Exploration of the Presence and Role of God During the Holocaust)
   Ryan Eller Butler University. Faculty Sponsors: Brent Hege Butler University
10:00 AM – Theology in a Silent World
   Emma Engdahl Butler University. Faculty Sponsors: Brent Hege Butler University
10:15 AM – War Insurance: A New Concept in the Ethics of Warfare
   Maddison Harner Millikin University. Faculty Sponsors: Eric Roark Millikin University

PHYSICS, MATHEMATICS & COMPUTER SCIENCE

Physics, Mathematics & Computer Science Session 1
Moderator: Rebecca Wahl
09:30 AM – 10:30 AM Gallahue Hall 348
09:30 AM – Generalized Mandelbrot Sets
   Aaron Schlenker Butler University. Faculty Sponsors: Bill Johnston Butler University
09:45 AM – Implementation of Near-Optimal Online Multiselection
   James Martin Butler University. Faculty Sponsors: Ankur Gupta Butler University
10:00 AM – Lyapunov’s Direct Method for Non-strict Minima
   Alec Hamaker Hanover College. Faculty Sponsors: Leonidas Pantelidis Hanover College
10:15 AM – Immigration Can Destabilize Tri-Trophic Interactions: Implications for Conservation of Top Predators
   Jesse Suter Bethel College. Faculty Sponsors: Kevin Drury Bethel College

Physics, Mathematics & Computer Science Session 2
Moderator: Xianming Han
10:45 AM – 12:00 PM Gallahue Hall 348
10:45 AM – Searching for Variable Stars in Globular Star Clusters
   John Vondersaar Butler University. Faculty Sponsors: Brian Murphy Butler University
11:00 AM – Characterization of MDM Optical Filters Using Ellipsometry
Christopher Gewirtz Rose-Hulman Institute of Technology. Faculty Sponsors: Maarij Syed Rose-Hulman Institute of Technology

**11:15 AM – Using Top Quark Decay to Search for New Physics**
Jordan Melendez Taylor University, Samuel Judge Taylor University. Faculty Sponsors: Ken Kiers Taylor University

**11:30 AM – Particle Detection using Photomultipliers and Plastic Scintillators**
Emily Ehlerding Manchester University. Faculty Sponsors: Christer Watson Manchester University, Henry Frisch University of Chicago

**11:45 AM – The Extraordinary Features and Capabilities of Metamaterials**
Dewan Woods Boston College. Faculty Sponsors: Willie Padilla Boston College

**Physics, Mathematics & Computer Science Session 3**
Moderator: Gonzalo Ordonez

**01:00 PM – 03:00 PM Gallahue Hall 348**

**01:00 PM – Quantum Searches of Fitness Landscapes**
Samuel Smith Butler University. Faculty Sponsors: Gonzalo Ordonez Butler University

**01:15 PM – Analyzing Nanoparticle Magnetization with a Novel Pulsed Magnetic Field Faraday Rotation Experimental Setup**
Thomas Foulkes Rose-Hulman Institute of Technology. Faculty Sponsors: Maarij Syed Rose-Hulman Institute of Technology

**01:30 PM – Disorder-Induced States within an Adatom-Quantum Wire System**
Bradley Magnetta Butler University. Faculty Sponsors: Gonzalo Ordonez Butler University

**01:45 PM – Electron-Wave Interaction in a Planar Sputtering Magnetron**
Jon Drobny Rose-Hulman Institute of Technology. Faculty Sponsors: Scott Kirkpatrick Rose-Hulman Institute of Technology

**02:00 PM – Interaction of Model Lipid Vesicles with Alveolar Macrophages**
Robinah Maasa Indiana University/Purdue University at Indianapolis. Faculty Sponsors: Horia Petrache Indiana University/Purdue University at Indianapolis

**02:15 PM – Quantum Theory of Light Experiment Measuring g2(0) Values and Bell's Inequalities**
Chandler Chapman Taylor University. Faculty Sponsors: Ken Kiers Taylor University

**02:30 PM – Radiowave Activation of Nanoparticles for Cancer Treatment**
Alla Letfullina Rose-Hulman Institute of Technology. Faculty Sponsors: Renat Letfullin Rose-Hulman Institute of Technology

**02:45 PM – Wave Propagation in Crystal Lattices and N Coupled Harmonic Oscillators**
Ziyi Wu Hanover College, Yuding Ai Hanover College. Faculty Sponsors: Leonidas Pantelidis Hanover College
POLITICAL SCIENCE

Political Science Session 1: Politics: Public policy, campaigns, & conflict in the USA and Mali
Moderator: Margaret Brabant
09:00 AM – 10:30 AM Jordan Hall 238
09:00 AM – Mali: Restoring Peace to a Peaceful Nation
   Olivia Covington Franklin College. Faculty Sponsors: Karen Burgard Franklin College
09:15 AM – The Dichotomy of Fusion Energy and America's Role in the Process
   Grey Harris Ball State University. Faculty Sponsors: Donald Gilman Ball State University
09:30 AM – Blowing the Whistle on Whistleblower Protection Laws
   Jacqui Rogers Millikin University. Faculty Sponsors: Bobbi Gentry Millikin University
09:45 AM – Comprehensive Service Integration as a Method to Improve Indiana's Workforce
   Brittanie Redd Butler University. Faculty Sponsors: Robin Turner Butler University
10:00 AM – The Evolution of American Microtargeting: An Examination of Trends in Political Messaging
   Luke Bunting Butler University. Faculty Sponsors: Margaret Brabant Butler University
10:15 AM – Lockean Privacy and the Courts: An Avenue for LGBT Rights in America
   Jesse Doggendorf Saint Louis University. Faculty Sponsors: Wynne Moskop Saint Louis University

PSYCHOLOGY

Psychology Session 1: Developmental I
Moderator: Robert Padgett
08:30 AM – 10:00 AM Pharmacy & Health Sciences 106A
08:30 AM – Take It But Don’t Fake It: Using Self-Awareness to Reduce Fabrications on Personality Tests
   Rebekah Hale Butler University. Faculty Sponsors: Robert Padgett Butler University
08:45 AM – Attachment in International Adoption
   Tabitha Jones Indiana Wesleyan University, Marion, Laura McGarvey Indiana Wesleyan University, Marion, Hollie Semlow Indiana Wesleyan University, Marion. Faculty Sponsors: Katti Sneed Indiana Wesleyan University, Marion
09:00 AM – Differences in Cognitive Biases, Health Behaviors, and Hypochondriacal Tendencies in Adult Adoptees and Non-Adoptees
   Kimberly Linder Marian University. Faculty Sponsors: Laurel Camp Marian University
09:15 AM – Differences in Perception of Childhood and Adult Depression Based on Parental Divorce
   Molly Schoberg Anderson University. Faculty Sponsors: Laura Stull Anderson University
09:30 AM – Self-Efficacy, Academic Achievement, and Homework Assistance
   Megan Scherzer Anderson University. Faculty Sponsors: Laura Stull Anderson University
Psychology Session 2: Health & Social I
Moderator: R. Brian Giesler

08:30 AM – 10:00 AM Pharmacy & Health Sciences 106B
- 08:30 AM – Affective State During Goal Adoption: Does it Matter?
  Courtney Hittitopele Butler University, Jordan Ludwig Butler University. Faculty Sponsors: Raymond Giesler Butler University

- 08:45 AM – Can Mindfulness Based Stress Reduction Meditation Affect Cancer-Related Fatigue?
  Paige Poure Butler University, Natalie Nusinow Butler University. Faculty Sponsors: Raymond Giesler Butler University

- 09:00 AM – Can Snack Choice be Influenced by Non-Conscious Priming?
  Rachel Soberman Butler University, Alessandra Rabellino Butler University, Miranda Stover Butler University. Faculty Sponsors: Raymond Giesler Butler University

- 09:15 AM – Self-Regulation in the Face of Temptation: The Impact of Religiosity
  Kristen Haebelerlein Butler University, Timothy Burks Butler University, Kelly Valladares Butler University. Faculty Sponsors: Raymond Giesler Butler University

- 09:30 AM – Effects of God Concept Primes on Prosocial Behavior after an Ego-Depletion Task
  Gabrielle Tatara Butler University. Faculty Sponsors: Kathryn Morris Butler University

Psychology Session 3: Cognitive & Social I
Moderator: Andrew Butler

08:30 AM – 10:00 AM Pharmacy & Health Sciences 202
- 08:30 AM – Computer Testing in a Paper World: The Role of Encoding Specificity and Computer Self-Efficacy in Recall Accuracy
  Myles Chandler Marian University. Faculty Sponsors: Faye Plascak-Craig Marian University

- 08:45 AM – Competition and the Effects on Interpersonal Interactions
  Francisco Huerta Wabash College. Faculty Sponsors: Bobby Horton Wabash College

- 09:00 AM – How the Number of Competitors Moderates Performance Between Avoidant and Approach Motivated Individuals
  Shane Brown Wabash College, James LaRowe Wabash College. Faculty Sponsors: Bobby Horton Wabash College

- 09:15 AM – Narcissism and the Moderating Effect on Performance and Competition
  Alex Hirsch Wabash College. Faculty Sponsors: Bobby Horton Wabash College

- 09:30 AM – Effect of Media Bias on Jury Decision Making
  Stephen Otte Hanover College. Faculty Sponsors: John Krantz Hanover College
09:45 AM – Emotional Response of Study Abroad Students Upon Reentry
Lindsey Dever Valparaiso University, Amanda Jonikaitis Valparaiso University, Maleni Angon Valparaiso University, Patty Carrillo Valparaiso University. Faculty Sponsors: Kendre Israel Valparaiso University

Psychology Session 4: Developmental II
Moderator: Robert Padgett
10:15 AM – 12:00 PM Pharmacy & Health Sciences 106A
10:15 AM – Adult Attachments in Kinetic Relationship Drawings
Laura Isenhagen Hanover College, Rachel Massie Hanover College. Faculty Sponsors: Ellen Altermatt Hanover College
10:30 AM – The Effects of Alcohol Consumption During Pregnancy: Exploring a Possible Link with Autism Spectrum Disorder
Holly Brun Hanover College. Faculty Sponsors: Alexis Green Hanover College
10:45 AM – The Influence of a Model’s Gender on Children’s Toy Choice
Victoria Miller Franklin College, Caitlyn Farris Franklin College, Tiana Babb Franklin College, Chelsey Russell Franklin College. Faculty Sponsors: Amy Bracken Franklin College
11:00 AM – Dwell Time in Preschoolers During Nonverbal Theory of Mind Tasks
Andy Walsh Wabash College. Faculty Sponsors: Eric Olofson Wabash College
11:15 AM – Maternal Mind Mindedness, a Predictor of Theory of Mind
Robert Thompson Wabash College. Faculty Sponsors: Eric Olofson Wabash College
11:30 AM – The Effects of Scaffolding on Children’s Dwell Time in an Implicit False Belief Locations Task
Connor O’Rear Wabash College. Faculty Sponsors: Neil Schmitzer-Torbert Wabash College
11:45 AM – Validation of Self-Paced Slide Shows as an Implicit Measure of Theory of Mind
Kenton Armbruster Wabash College, Patrick Marlatt Wabash College. Faculty Sponsors: Neil Schmitzer-Torbert Wabash College

Psychology Session 5: Health & Social II
Moderator: R. Brian Giesler
10:15 AM – 12:00 PM Pharmacy & Health Sciences 106B
10:15 AM – Implicit Gender Stereotypes and Their Impact on Men vs Women Who Choose to Remain Child Free
Jessica Thomas Indiana University/Purdue University at Indianapolis, Megan Dumka Indiana University/Purdue University at Indianapolis, Kassi Rains Indiana University/Purdue University at Indianapolis. Faculty Sponsors: Leslie Ashburn-Nardo Indiana University/Purdue University at Indianapolis
10:30 AM – Impressions of Childfree Women
Stacy Slavings Indiana University/Purdue University at Indianapolis, Scott Hall Indiana University/Purdue University at Indianapolis, Haley Kolp Indiana University/Purdue University at Indianapolis. Faculty Sponsors: Leslie Ashburn-Nardo Indiana University/Purdue University at Indianapolis
10:45 AM – The Effects of Double Jeopardy in Organizations
Logan Wikoff Indiana University/Purdue University at Indianapolis. Faculty Sponsors: Leslie Ashburn-Nardo Indiana University/Purdue University at Indianapolis, Jane Williams Indiana University/Purdue University at Indianapolis

11:00 AM – The Role of Belonging in Non-Traditional College Students’ Academic Success and Psychological Well-Being
Brandon Millspaugh Indiana University/Purdue University at Indianapolis. Faculty Sponsors: Leslie Ashburn-Nardo Indiana University/Purdue University at Indianapolis

11:15 AM – Motivating a Healthy Lifestyle
Haley Beer Anderson University. Faculty Sponsors: Laura Stull Anderson University

11:30 AM – Public v. Private: Morality and Stereotypes Concerning Homosexuality
Rene Bushman Indiana Wesleyan University, Marion, Jess Bruni Indiana Wesleyan University, Marion, Lexie Easton Indiana Wesleyan University, Marion, Kelsey Conrad Indiana Wesleyan University, Marion. Faculty Sponsors: Katti Sneed Indiana Wesleyan University, Marion

11:45 AM – The Influence of Profile Name on Person Perception
CJ Haynes Franklin College, Brooke Burton Franklin College, Zach King Franklin College. Faculty Sponsors: Kristin Flora Franklin College

Psychology Session 6: Cognitive & Social II
Moderator: Andrew Butler

10:15 AM – 12:00 PM Pharmacy & Health Sciences 202
10:15 AM – Peer vs. Expert: The Effects of Influence Source on Conformity
Nardeen Turjman Hanover College, Caroline Henderzahs Hanover College. Faculty Sponsors: Bill Altermatt Hanover College

10:30 AM – Influence of Cognitive Performance on Social Rejection
Daisy Zepeda Franklin College, Natalie Miller Franklin College, Jamie Scribner Franklin College. Faculty Sponsors: Amy Bracken Franklin College

10:45 AM – The Effect of Women’s Presence on Men’s Opinions of Gender Discrimination
Kayla Moss Franklin College, Gabe Robertson Franklin College. Faculty Sponsors: Amy Bracken Franklin College

11:00 AM – The Effects of Singing in Groups on Perceptions
Julz Quiroz Goshen College, Sandrine Sandrali Goshen College. Faculty Sponsors: Christine Noria Goshen College

11:15 AM – Memory for Specific Sounds: Modulation by Audiovisual Learning
Elizabeth Davis Butler University, Kelly Bryant Butler University. Faculty Sponsors: Andrew Butler Butler University

11:30 AM – The Effects of Unisensory vs. Multisensory Stimuli on Memory for Specific Visual Details
Elizabeth Davis Butler University, Katie Cahill Butler University, Kathryn Kirkham Butler University. Faculty Sponsors: Andrew Butler Butler University
Psychology Session 7: Memory I
Moderator: Tara Lineweaver
01:00 PM – 02:15 PM Pharmacy & Health Sciences 150
01:00 PM – It’s a “Draw:” Art and Puzzles Both Improve Mood in Grieving Children
   Kaylin Beckwith Butler University, Alaina Rodriguez Butler University. Faculty Sponsors: Tara Lineweaver Butler University
01:15 PM – I’ll Only Say This Once—Will You Remember? Young Adults’ Self-Reported Language and Memory Abilities
   Addie Allen Butler University, Mack Reed Butler University. Faculty Sponsors: Tara Lineweaver Butler University
01:30 PM – Walking on Sunshine Versus Vivir Sin Tu Cariño: Emotional Memory in English/Spanish Bilinguals
   Alix McLaughlin Butler University, Madison Horth Butler University. Faculty Sponsors: Tara Lineweaver Butler University
01:45 PM – Too Tired to Care: A Study on Compassion Fatigue and Self-Care among Child Family Service Facility Workers
   Jenna Davitt Indiana Wesleyan University, Marion, Brittany Hobson Indiana Wesleyan University, Marion, Olivia Kaplan Indiana Wesleyan University, Marion, Mike Joseph Indiana Wesleyan University, Marion, Becca Cronk Indiana Wesleyan University, Marion. Faculty Sponsors: Katti Sneed Indiana Wesleyan University, Marion
02:00 PM – What Almost Kills You Makes Your Memory Stronger: Cancer Diagnosis Memories
   Angeline Modesti Butler University, Renato Puga Butler University. Faculty Sponsors: John Bohannon III Butler University

Psychology Session 8: Clinical & Personality I
Moderator: Joel Martin
01:00 PM – 02:15 PM Pharmacy & Health Sciences 156
01:00 PM – Client Perception: A Comparison of Adult Sex Offender and Batterers Groups
   Lindsey Griggs Indiana Wesleyan University, Marion, Lauren Johnson Indiana Wesleyan University, Marion, Jessica Girard Indiana Wesleyan University, Marion, Summayya James Indiana Wesleyan University, Marion. Faculty Sponsors: Katti Sneed Indiana Wesleyan University, Marion
01:15 PM – Effectiveness of Modality in Treatment at Family Service Society
   Allison Musselman Indiana Wesleyan University, Marion, Kristen Perkins Indiana Wesleyan University, Marion, Kristen McLaughlin Indiana Wesleyan University, Marion, Tyrone Martin Indiana Wesleyan University, Marion. Faculty Sponsors: Katti Sneed Indiana Wesleyan University, Marion
01:30 PM – The Effects of a Prewriting Intervention on Test Anxiety
   Louise Magiera Manchester University, Alivia Benbow Manchester University, Ashley Landrum Manchester University. Faculty Sponsors: Russell Coulter-Kern Manchester University
01:45 PM – The Effect of Expressive Writing on Social Anxiety
   Kathleen Chaney Anderson University. Faculty Sponsors: Laura Stull Anderson University
The Relationship between an Individual’s Loneliness, Self-Esteem and Social Anxiety

James Pixey Anderson University. Faculty Sponsors: Laura Stull Anderson University

Psychology Session 9: Biological & Animal Models I
Moderator: Robert Dale
01:00 PM – 02:15 PM Pharmacy & Health Sciences 202
01:00 PM – Speech Recognition and Listening Effort for Adults with Aphasia
Kristyn Stanfield Butler University. Faculty Sponsors: Carrie Richie Butler University
01:15 PM – The Effect of Lateral Temporal Gestures on Recall
Melody Stewart Anderson University. Faculty Sponsors: Laura Stull Anderson University
01:30 PM – The Effect of Visual Experience with Other-Race Faces on Cross-Racial Facial Identification
Xiduo Peng Hanover College. Faculty Sponsors: Bill Altermatt Hanover College
01:45 PM – The Effects of Pet Interaction on Human Peer Interactions
Ashley Walker Hanover College. Faculty Sponsors: Stephen Dine Young Hanover College
02:00 PM – The Effects of Ethanol on Spatial Memory in cHAP Mice
Jessie Barton Hanover College, Kelly Bednar Hanover College. Faculty Sponsors: Alexis Green Hanover College

Psychology Session 10: Positive & Industrial-Organizational I
Moderator: Alison O’Malley
01:00 PM – 02:15 PM Pharmacy & Health Sciences 204
01:00 PM – Gratitude Intervention EMA/I
Ellen Steinke Indiana Wesleyan University, Marion, Amy Sloan Indiana Wesleyan University, Marion. Faculty Sponsors: Jason Runyan Indiana Wesleyan University, Marion
01:15 PM – Beyond Task Performance: What Predicts Counterproductive Workplace Behavior and Organizational Citizenship Behavior Across University Members?
Alaina Rodriguez Butler University. Faculty Sponsors: Alison O’Malley Butler University
01:30 PM – Ecological Momentary Gratitude Intervention Produces Immediate Mood Effects
Emily Ragsdale Indiana Wesleyan University, Marion, Sarah Ringenberg Indiana Wesleyan University, Marion. Faculty Sponsors: Jason Runyan Indiana Wesleyan University, Marion, Tim Steenbergh Indiana Wesleyan University, Marion, Doug Daugherty Indiana Wesleyan University, Marion
01:45 PM – Thankful for My Smartphone: Results of an iPhone-delivered Gratitude Intervention
Hannah Woodard Indiana Wesleyan University, Marion, Justin Ridenour Indiana Wesleyan University, Marion, Kelsey Evey Indiana Wesleyan University, Marion. Faculty Sponsors: Tim Steenbergh Indiana Wesleyan University, Marion
02:00 PM – Gratitude and Neuroticism are Predictors of Engagement with an Ecological Momentary Gratitude Intervention
Jonathan Shrader Indiana Wesleyan University, Marion, Ellen Steinke Indiana Wesleyan University, Marion, Carmen Kumpula Indiana Wesleyan University, Marion, Kassidy Deaver Indiana Wesleyan University, Marion. Faculty Sponsors: Jason Runyan Indiana Wesleyan University, Marion

Psychology Session 11: Cognitive & Social III
Moderator: Amanda Gingerich
01:00 PM – 02:15 PM Pharmacy & Health Sciences 212
01:00 PM – Employee Performance: What's Your Evaluation?
Michelle Miller Butler University. Faculty Sponsors: Mandy Gingerich Butler University
01:15 PM – Multitasking: The Impact of Divided Attention on a Reading Comprehension Task
Jordan Cutler Franklin College, Elizabeth Sickels Franklin College, Jessica Mahan Franklin College, Lauren Mowrey Franklin College. Faculty Sponsors: Amy Bracken Franklin College
01:30 PM – The Impact of Morality on Likelihood to Conform
Kayla Keith Franklin College, Ashley Borja Franklin College, Brooke Stamper Franklin College, Briana Jurrema Franklin College. Faculty Sponsors: Amy Bracken Franklin College
01:45 PM – Problem Solving with Decoding, Repurposing, and Language Tasks in College Students: A Study in Creativity Priming
Allison Krawiec Goshen College, Lauren Slone Goshen College, Madeleine Ruth Goshen College. Faculty Sponsors: Christine Noria Goshen College, Julie Reese Goshen College
02:00 PM – The Effects of Rivalry on Competitive Performance
Spencer Burk Wabash College. Faculty Sponsors: Bobby Horton Wabash College

Psychology Session 12: Memory I
Moderator: Tara Lineweaver
02:30 PM – 04:30 PM Pharmacy & Health Sciences 150
02:30 PM – The Effects of Tylenol in Non-Social Emotional Memory Effects
Trevor Spelman Butler University, Renato Puga Butler University. Faculty Sponsors: John Bohannon III Butler University
02:45 PM – “Siri, Write This Down.” Or “Where Did I Leave That Post-It Note?” Young Versus Older Adults’ Perceptions of Memory Strategies
Jacqueline Juett Butler University, Catherine Geanon Butler University. Faculty Sponsors: Tara Lineweaver Butler University
03:00 PM – Flex Your Mind! The Relationship Between Cognitive Flexibility and Academic Achievement in College Students With or Without ADHD
Colleen Frank Butler University, Erik Fromm Butler University. Faculty Sponsors: Tara Lineweaver Butler University, Suneeta Kercood Butler University
03:15 PM – Memory on Ice: Retrograde Enhancement of Thematic Information
Alexandra Robinson-Norris Butler University, Anna Sutter Butler University, Elizabeth McGlone Butler University, Ashley Asuncion Butler University, Kara Huster Butler University. Faculty Sponsors: John Bohannon III Butler University
03:30 PM – Remembering the One that Got Away; Tylenol Might Help!
Elizabeth McGlone Butler University, Karina Hamamouche Butler University, Emily Lauth Butler University, Trevor Spelman Butler University. Faculty Sponsors: John Bohannon III Butler University

03:45 PM – My Memory’s Not What It Used to Be, But It’s Still Better Than Yours: Older Adults’ Memory Self-Perceptions
Sarah McRoberts Butler University, Megan Fishbaugh Butler University. Faculty Sponsors: Tara Lineweaver Butler University

04:00 PM – The Effect of Sexualized Commercials on Self-Objectification
Emilee Roberts Hanover College, Rachel Jones Hanover College. Faculty Sponsors: Ellen Altermatt Hanover College

Psychology Session 13: Clinical & Personality II
Moderator: Joel Martin
02:30 PM – 04:30 PM Pharmacy & Health Sciences 156
02:30 PM – Interpersonal Training, Assertiveness, and Social Anxiety
Hannah Boggs Anderson University. Faculty Sponsors: Laura Stull Anderson University

02:45 PM – The Relationship between Internalized Stigma and Self-Esteem in College Students with Mental Health Conditions
Kari Smalley Anderson University. Faculty Sponsors: Laura Stull Anderson University

03:00 PM – Alcohol and Impulsivity
Spencer Peters Wabash College. Faculty Sponsors: Neil Schmitzer-Torbert Wabash College

03:15 PM – An Investigation into the Effects of Hangover on Memory
Joel Beier Wabash College. Faculty Sponsors: Neil Schmitzer-Torbert Wabash College

03:30 PM – Mental Health Stigmas and Counseling Services Utilization
Johannah Facer Valparaiso University, Christina Crawley Valparaiso University, Simone Ingram Valparaiso University, Caroline Odom Valparaiso University, Sara Watts Valparaiso University. Faculty Sponsors: Kendre Israel Valparaiso University

03:45 PM – Substance Use and Subclinical Psychosis Symptoms
Kelsey Hurm Butler University. Faculty Sponsors: Joel Martin Butler University

04:00 PM – The Big Five and Academic Performance: Exploring Associations between Neuroticism and GPA
Alicia Aldridge Hanover College, Amber Metalla Hanover College. Faculty Sponsors: Ellen Altermatt Hanover College

04:15 PM – The Effects of Humor and Personality on Willingness to Self-Disclose
Mathew Winters Marian University. Faculty Sponsors: Faye Plascak-Craig Marian University

Psychology Session 14: Biological & Animal Models II
Moderator: Robert Dale
02:30 PM – 04:30 PM Pharmacy & Health Sciences 202
02:30 PM – The Effects of Social Housing and Social Withdrawal on Operantly Trained Behaviors
Natalie Kent Hanover College, Megan McGowan Hanover College. Faculty Sponsors: Alexis Green Hanover College
02:45 PM – Can BDNF Administered to the Medial-Prefrontal Cortex of Cocaine Habituated Rats Facilitate a Return to Goal-Directed Behavior?
Joshua Stowers Wabash College. Faculty Sponsors: Neil Schmitzer-Torbert Wabash College

03:00 PM – The Effects of Video Games on Stress Through Testosterone and Cortisol Activation
Fidel Ojimba Wabash College. Faculty Sponsors: Teresa Aubele-Futch Wabash College

03:15 PM – Effects of PHA-543613 on the Rodent Anterior Cingulate Cortex: a Study in Rodent Schizophrenia
Trevor Young Wabash College. Faculty Sponsors: Teresa Aubele-Futch Wabash College

03:30 PM – How Changing the Contrast of a Visual Stimulus Affects Neuronal Responses in Humans
Jacob Owens Wabash College. Faculty Sponsors: Karen Gunther Wabash College

03:45 PM – The Effects of Local Administration of Flutamide and Fulvestrant in the Right Orbitofrontal Cortex on Impulsive Decision-Making in Male Rats
Andrew Fulton Wabash College. Faculty Sponsors: Teresa Aubele-Futch Wabash College

04:00 PM – The Effects of the Serotonin Agonist Sumatriptan on Aggression in a Neutral Cage in Adult Male Rats
Nathan Bryant Wabash College. Faculty Sponsors: Neil Schmitzer-Torbert Wabash College

04:15 PM – The Impact of Estrogen on Risky Decision-Making in Female Rats
Bradley Wise Wabash College. Faculty Sponsors: Teresa Aubele-Futch Wabash College

Psychology Session 15: Positive & Industrial-Organizational II
Moderator: Alison O’Malley

02:30 PM – 04:30 PM Pharmacy & Health Sciences 204
02:30 PM – Information and Climate Change Policy Support: A Meta-Analytic Test of Self-Determination Theory
David Harting Butler University. Faculty Sponsors: Alison O'Malley Butler University

02:45 PM – Virtue and the Natural Environment: The Outcomes of Demonstrating Pro-Environmental Behaviors
Leah Gerber Butler University. Faculty Sponsors: Alison O'Malley Butler University

03:00 PM – An Analysis of the Effect of Perceived Support and Fit on the Relationship Between Organizational Cynicism and Workplace Behaviors
Chelsea Steele Marian University. Faculty Sponsors: David Rusbasan Marian University

03:15 PM – Feedback Orientation and Employee Development: Broadening the Scope
Karlee Pierce Butler University, Noah Share Butler University. Faculty Sponsors: Alison O'Malley Butler University

03:30 PM – Psychological Well-Being in College Students: The Roles of Social Support and Dysfunctional Coping
Chelly Neuenschwander Anderson University. Faculty Sponsors: Laura Stull Anderson University

03:45 PM – The Ebb and Flow of Performance Feedback
Chris Thompson Butler University. Faculty Sponsors: Alison O'Malley Butler University
04:00 PM – The Effects of Positive Comments Through Social Media on Happiness
Megan Keller *Hanover College*, Bruce Thompson *Hanover College*. Faculty Sponsors: John Krantz *Hanover College*

04:15 PM – The Relationship between Political Views and Moral Judgments
Jacob Forbes *Hanover College*. Faculty Sponsors: Bill Altermatt *Hanover College*

**Psychology Session 16: Cognitive & Social IV**
Moderator: Amanda Gingerich

02:30 PM – 04:30 PM Pharmacy & Health Sciences 212
02:30 PM – The Impact of Touch on Interpersonal Interactions
    Angela Fleck *Hanover College*. Faculty Sponsors: Stephen Dine Young *Hanover College*

02:45 PM – The Relationship between Mimic Behavior, Personal Engagement and Anxiety
    Lilian Tucker *Hanover College*. Faculty Sponsors: Stephen Dine Young *Hanover College*

03:00 PM – Verbal Overshadowing Effect in Earwitness Testimony: Does it Matter Whose Voice is Verbalized?
    Jack Buckley *Butler University*. Faculty Sponsors: Mandy Gingerich *Butler University*

03:15 PM – Peer Mentors and the College Experience
    Christopher Benjamin *Anderson University*. Faculty Sponsors: Laura Stull *Anderson University*

03:30 PM – Prominent Stressors among Each of the Four Class Standings at Manchester University
    Hannah Glenn *Manchester University*. Faculty Sponsors: Marcie Coulter-Kern *Manchester University*

03:45 PM – The Influence of Mood on Feeling of Knowing: Would You Like Some TOTS With That?
    Lindsay Higginbotham *Butler University*, Daniel Evans *Butler University*. Faculty Sponsors: Mandy Gingerich *Butler University*

04:00 PM – The Main Classroom Stressors of College Students
    Kailah Glock *Manchester University*. Faculty Sponsors: Marcie Coulter-Kern *Manchester University*

04:15 PM – Top 10 Events that Detract from Students’ Overall College Experience
    Kyle Knepp *Manchester University*, Joseph Hunter *Manchester University*. Faculty Sponsors: Marcie Coulter-Kern *Manchester University*

**SOCIOMETRY**

**Sociology Session 1: Students' Lifeworld**
Moderator: Dr. Katherine Novak
08:30 AM – 10:30 AM Jordan Hall 201
08:30 AM – College Students' Knowledge of Domestic Violence
    Elizabeth Durland *Bellarmine University*. Faculty Sponsors: Curt Bergstrand *Bellarmine University*
08:45 AM – Examining the Relationship between College Students’ Drinking and Cheating and Academic Performance
Darrell McClarin Butler University. Faculty Sponsors: Katherine Novak Butler University

09:00 AM – The Effects of Social Relations and Place Attachment on College Students Academic Motivation
Aaron Breidert Butler University. Faculty Sponsors: Katherine Novak Butler University

09:15 AM – Understanding College Student’s Perceptions of Cuba: Is Knowledge of the Cuban Missile Crisis Relevant?
Katherine Memsic Butler University. Faculty Sponsors: Katherine Novak Butler University

09:30 AM – Role Overload and Prescription Stimulant Use among College Students
Haley Cook Butler University. Faculty Sponsors: Katherine Novak Butler University

09:45 AM – The Effect of Exercise Identity on Levels of Depression among College Students
Phillip Powell Butler University. Faculty Sponsors: Katherine Novak Butler University

10:00 AM – The Effect of Greek Society Chapter Involvement on Academic Achievement
Alex Buchman Butler University. Faculty Sponsors: Katherine Novak Butler University

10:15 AM – Does Religion Have an Effect on Drug Use Among College Students?
Mitchell Markel Butler University. Faculty Sponsors: Katherine Novak Butler University

Sociology Session 2: Social Interactions
Moderator: Dr. Marvin Scott

08:30 AM – 10:30 AM Jordan Hall 203

08:30 AM – Customer Explanations of Tipping Behavior and the Relationship between Customer Characteristics and Tip
Nicholas Willits Butler University. Faculty Sponsors: Katherine Novak Butler University

08:45 AM – Perception of Social Status and Impact of Alien Immigrants in the United States
Zachary Hembree Butler University. Faculty Sponsors: Katherine Novak Butler University

09:00 AM – Religion’s Effect on the Need to Belong and Body Image in Adolescent Girls
Madison Teskey Butler University. Faculty Sponsors: Katherine Novak Butler University

09:15 AM – The Education Equation: Gifted, Talented, and Tracked
Maggie Smith Butler University. Faculty Sponsors: Katherine Novak Butler University

09:30 AM – The Effect of the Parent-Child Relationship on Delinquency
Julia Harris Butler University. Faculty Sponsors: Katherine Novak Butler University

09:45 AM – The Perpetuation of Graffiti Art Subculture in American Society
Camille Lannert Bellarmine University. Faculty Sponsors: Curt Bergstrand Bellarmine University

10:00 AM – The Newtown Community’s Reaction to the Unconscionable Tragedy on 12/14
Ellen Tabler Butler University. Faculty Sponsors: Katherine Novak Butler University

10:15 AM – Understanding the Relationship between Involvement in Student Organizations and Motivation to Volunteer During the College Years
Alex Pittard Butler University. Faculty Sponsors: Katherine Novak Butler University
Sociology Session 3: The Difference and the Norm
Moderator: Dr. Krista Cline
10:45 AM – 12:30 PM Jordan Hall 201
10:45 AM – “Acting White;” A Transformation of Animosity to Admiration in Black Peer Groups
   Angel Mills *Howard University*. Faculty Sponsors: Kehbuma Langmia *Howard University*
11:00 AM – Factors Associated with Students’ Motivation to Participate in Social Smoking and to Identify as a Social Smoker
   Samantha Selden *Butler University*. Faculty Sponsors: Katherine Novak *Butler University*
11:15 AM – Gendered Role Portrayal and Marvel Superheroes
   Addam Wade *Bellarmine University*. Faculty Sponsors: Curt Bergstrand *Bellarmine University*
11:30 AM – The Ethic of Care: How We View Moral and Ethical Virtues Between Genders
   Daniel Oepkes *Butler University*. Faculty Sponsors: Richard McGowan *Butler University*
11:45 AM – The Influence of Peers and Non-Peers on Adolescent Postsecondary Education Plans
   Abigail Miller *Butler University*. Faculty Sponsors: Katherine Novak *Butler University*
12:00 PM – Student and Faculty Perceptions of Conceal Carry Law on Campus
   Justin Rullman *Butler University*. Faculty Sponsors: Katherine Novak *Butler University*
12:15 PM – Through Their Eyes: How Do Burmese Residents In Indianapolis Perceive the Criminal Justice System?

Sociology Session 4: Media and Society
Moderator: Dr. Kenneth Colburn
10:45 AM – 12:30 PM Jordan Hall 203
10:45 AM – Effects of News Station Political Affiliation on Individuals’ Views of Violent Crime in America
   Jessika Denny *Butler University*. Faculty Sponsors: Katherine Novak *Butler University*
11:00 AM – The Space between Human and Machine in Film
   Gregory Maher *Valparaiso University*. Faculty Sponsors: David Western *Valparaiso University*
11:15 AM – An Exploration of Relationships in Female Prisons- Content Analysis from the Original TV Series "Orange Is the New Black"
   Megan Oskins *Bellarmine University*. Faculty Sponsors: Curt Bergstrand *Bellarmine University*
11:30 AM – Does Spongebob Squarepants Promote Homosexuality?
   Gregory Leist *Bellarmine University*. Faculty Sponsors: Curt Bergstrand *Bellarmine University*
11:45 AM – Video Game Addiction
   Sam Hellinger *Bellarmine University*. Faculty Sponsors: Curt Bergstrand *Bellarmine University*
12:00 PM – Facebook Addiction
   Megan Gibson *Bellarmine University*. Faculty Sponsors: Curt Bergstrand *Bellarmine University*
   Drake Spears *Butler University*. Faculty Sponsors: Katherine Novak *Butler University*
ART EXHIBITION

8:30-A.M.-9:30 A.M. IRWIN LIBRARY

I Spy
Ashleigh Schneckenberger Butler University. Faculty Sponsors: Steve Nyktas Butler University

Metathesiophobia
Taylor Sitorius Butler University. Faculty Sponsors: Elizabeth Mix Butler University

Peering In
Amber Mills Butler University. Faculty Sponsors: Steve Nyktas Butler University

Pieces
Morgan McFarland Butler University. Faculty Sponsors: Steve Nyktas Butler University

Seeing Thru the Stigma
Kaylin Beckwith Butler University. Faculty Sponsors: Steve Nyktas Butler University

Tiny Snippets: A Series of Relational Artworks
Olivia Toriumi Butler University. Faculty Sponsors: Steve Nyktas Butler University

Through the Eyes of Imagination
Erin Drennan Butler University. Faculty Sponsors: Steve Nyktas Butler University
POSTER PRESENTATIONS

SESSION 1
8:30-A.M.-9:30 A.M. IRWIN LIBRARY

IRWIN LIBRARY LOWER LEVEL

BIOLOGY & SUSTAINABILITY

Gene Expression During Systemic Acquired Resistance in the Moss Amblystegium serpens
Blaine Harlan Butler University. Faculty Sponsors: Nat Hauck Butler University

Expanding Distribution into the Midwest by the Lone Star Tick is Facilitated by Recognizing Excreta of Previously Established Ticks
Leighanne Main Wittenberg University, Blake Nelson Wittenberg University, Brent Whitehead Wittenberg University, Andrew Jajack Wittenberg University, Andrew Rosselot Wittenberg University. Faculty Sponsors: Jay Yoder Wittenberg University

Lunar Phobia in Temperate Vespertilionid Bats: Modeling Moonlight’s Impact on Bat Activity
Aaron Cross Ball State University. Faculty Sponsors: Timothy Carter Ball State University

Spermatid Ultrastructure within the Testis of the Softshell Turtle, Apalone mutica
Michelle Brumm Wittenberg University. Faculty Sponsors: Kevin Gribbins Wittenberg University

Investigation of the Expression and Localization of the Receptor FSHR-1 in C. elegans Neurons
Kyle Cherry Butler University. Faculty Sponsors: Jennifer Kowalski Butler University

Uptake and Distribution of Cu, Pb, and Zn in Dandelions (Taraxacum officinale; Asteraceae) Sampled from Polluted and Non-Polluted Soils
Mallory Dameron Wittenberg University, Sarah Boughter Wittenberg University. Faculty Sponsors: Matthew Collier Wittenberg University, Kevin Gribbins Wittenberg University

The Development of a Novel Fluorophore-Based Method to Investigate Regulatory Neuronal Proteins in Caenorhabditis elegans
Shataakshi Dube Butler University. Faculty Sponsors: Jeremy Johnson Butler University, Jennifer Kowalski Butler University

Three-Dimensional Analyses of Craniofacial and Oronasal Phenotypes in Ts65Dn Down Syndrome Mice Treated with EGCG, a Dyrk1a Inhibitor.
Emily Harrington Indiana University/Purdue University at Indianapolis. Faculty Sponsors: Randall Roper Indiana University/Purdue University at Indianapolis, John Starbuck Indiana University/Purdue University at Indianapolis

Spermatid Morphology Within the Germinal Epithelium of the Southern Bunchgrass Lizard, Sceloporus aeneus
Cady Gannon Wittenberg University, Lauren Arona Wittenberg University. Faculty Sponsors: Kevin Gribbins Wittenberg University
Role of 12-oxo-phytodienoic Acid (OPDA) in Defense Mechanism of Mnium cuspidatum
Robert Spiller Butler University. Faculty Sponsors: Philip Villani Butler University

Short-Term Effects of PIT Tags on Variable Kingsnakes
Maggie Ruppel Wittenberg University, Carrie Schmaus Wittenberg University, Adam Brown Wittenberg University. Faculty Sponsors: Richard Phillips Wittenberg University

Detection of Wolbachia in Numerous Orders of Insects in Central Indiana
Hope Seibert Franklin College, Eleni Mitchell Franklin College, Dhruv Patel Franklin College, Paige Reisinger Franklin College. Faculty Sponsors: Lawrence Mordan Franklin College

Tobacco Dependence Education in Accredited U.S. Dental Assisting Program Curricula
Emily Svetanoff Butler University. Faculty Sponsors: James Shellhaas Butler University

A Bioassessment of the Fish Populations in the Ohio River Near Zimmer and Beckjord Power Plants

Spermiogenesis Within the Testicular Tissues of the Spiny Lizard, Sceloporus grammicus
Allison Dunn Wittenberg University, Keri Good Wittenberg University. Faculty Sponsors: Kevin Gribbins Wittenberg University

Analyzing the Effects of Jasmonic Acid and Chemicals in the JA Pathway on the Systemic Acquired Resistance of Moss and Pathogen Related Genes
Allison Shanks Butler University. Faculty Sponsors: Nat Hauck Butler University

Distribution Patterns of Three Invasive Plant Species in Licking County Forest Ecosystems
Monica Edgerton Denison University. Faculty Sponsors: Doug Spieles Denison University

Chalkbrood Fungal Infection as a Signal of Health-Related Problems, Poor Nutrition, and Distress in Honey Bee Colonies
Leighanne Main Wittenberg University, Blake Nelson Wittenberg University, Brent Whitehead Wittenberg University, Andrew Jajack Wittenberg University, Andrew Rosselot Wittenberg University. Faculty Sponsors: Jay Yoder Wittenberg University

Decreased Sodium Channel Expression During Spinal Cord Regeneration in Lamprey
Avalokiteswari Kurup Earlham College, Elizabeth Richards Earlham College, Anna Juras Earlham College, Ruth Lewis Earlham College, Yim Rodriguez Earlham College, Rebecca Claire Palmarini Earlham College. Faculty Sponsors: Robert Rosenberg Earlham College

Gunpowder and Woolper Creek Watershed Initiative

Feeding on Different Types of Pollen Enhances Suitability for Release of the Red Mite as a Biological Control Agent Against a Variety of Plant Pests
Leighanne Main Wittenberg University, Blake Nelson Wittenberg University, Brent Whitehead Wittenberg University, Andrew Jajack Wittenberg University, Andrew Rosselot Wittenberg University. Faculty Sponsors: Jay Yoder Wittenberg University
Effects of Methionine Sulfoxide Reductase (Msr) in Drosophila
Nirthieca Suthakaran Florida Atlantic University. Faculty Sponsors: Dr. David Binninger Florida Atlantic University

Cave Crickets Have No Evidence of Carrying the Fungus That Causes White-Nose Syndrome in Bats from Small Caves in the Cumberland Plateau
Leighanne Main Wittenberg University, Blake Nelson Wittenberg University, Brent Whitehead Wittenberg University, Andrew Jajack Wittenberg University, Andrew Rosselot Wittenberg University. Faculty Sponsors: Jay Yoder Wittenberg University

3D and Active-Learning Modules in Biology Education
Nikka Abaricia Purdue University Calumet, Steven Dubec Purdue University Calumet, John Moreland Purdue University Calumet. Faculty Sponsors: Radmila Sarac Purdue University Calumet

The Effects of Epigallocatechin gallate (EGCG) on Cellular and Molecular Craniofacial Precursors
Mariyamou Diallo Indiana University/Purdue University at Indianapolis, Emily Haley Indiana University/Purdue University at Indianapolis, Danika Tumbleson Indiana University/Purdue University at Indianapolis. Faculty Sponsors: Randall Roper Indiana University/Purdue University at Indianapolis

Investigation of SYD-2 Protein as a Substrate of the Anaphase-Promoting Complex Enzyme at the C.elegans Neuromuscular Junction
Daniel Lester Butler University. Faculty Sponsors: Jennifer Kowalski Butler University

Secondary Seed Dispersal of Neotropical Tree Species
Abigail Robison Butler University. Faculty Sponsors: Paula Trillo Butler University

The Grand Canyon as an Undergraduate Geology Field Laboratory
Alexis Litz Hanover College. Faculty Sponsors: Ken Bevis Hanover College

Investigation of the Function of Mammalian Trisomy 21 Gene Dyrk1A on Neuromuscular Signaling and the Restorative Effects of Polyphenol EGCG in C. elegans
JoAnne Babula Butler University. Faculty Sponsors: Jennifer Kowalski Butler University

Assessment of Protein Expression Influenced by TAL1 in T-Cell Acute Lymphoblastic Leukemia
Luke Schmid Ball State University, Sarah Mahl Ball State University. Faculty Sponsors: James Olesen Ball State University

Control Measures For Reducing Amount of Allergenic Molds Carried by Seed Beetles in a Science Classroom Setting
Leighanne Main Wittenberg University, Blake Nelson Wittenberg University, Brent Whitehead Wittenberg University, Andrew Jajack Wittenberg University, Andrew Rosselot Wittenberg University. Faculty Sponsors: Jay Yoder Wittenberg University

Manipulation of Anthocyanin Production in Saponaria officinalis Using Sun Screen
Harleen Athwal University of Indianapolis. Faculty Sponsors: Sandra Davis University of Indianapolis
IRWIN LIBRARY FIRST FLOOR

BIOCHEMISTRY & MOLECULAR BIOLOGY

Serine Hydrolases in M. smegmatis
Braden Bassett Butler University. Faculty Sponsors: Jeremy Johnson Butler University

The Role of Histone H3K79 Methylation and Histone H4 Acetylation in the Saccharomyces cerevisiae UV-Induced DNA Damage Response
Andrea Karl Denison University. Faculty Sponsors: Jeff Thompson Denison University

Intersubunit Mutational Effect on GIRK1 and GIRK4 Subunits
Cody Stewart Purdue University Calumet. Faculty Sponsors: Radmila Sarac Purdue University Calumet

Methods for Palmitoylation Detection in Bacteria
Arielle Russell Butler University. Faculty Sponsors: Jeremy Johnson Butler University

Defective Vasoactive Intestinal Peptide Expression in Experimental Congenital Diaphragmatic Hernia: Effects on Airway Branching
Han (Eddie) Shin University of Pittsburgh, Julie Rhoad University of Pittsburgh. Faculty Sponsors: Douglas Potoka University of Pittsburgh

Activation of Apoptotic Proteins by Epigallocatechin-3-gallate in Human Non-Small Cell Lung Cancer Cells
Ryan Pierce Bellarmine University. Faculty Sponsors: Mary Huff Bellarmine University

Saccharomyces Cerevisiae
Heather Hansen Butler University. Faculty Sponsors: Jeremy Johnson Butler University

Protein Sculptures: Bridging the Gap Between Art and Science
Evan Zelesnik DePauw University. Faculty Sponsors: Dan Gurnon DePauw University

Characterization of Enzyme Activity and Substrate Specificity of LipW, a Lipase Linked to Tuberculosis
Magy McKary Butler University. Faculty Sponsors: Jeremy Johnson Butler University

Determining Concentration Levels of Inorganic Arsenic in Potatoes
Beau Ramirez Bellarmine University. Faculty Sponsors: Mary Huff Bellarmine University, Wendy Burns Bellarmine University

Mutagenesis and Purification of Bacterial Carboxylesterase from Francisella tularensis
Jessica Bun Butler University. Faculty Sponsors: Jeremy Johnson Butler University

PHARMACY, HEALTH SCIENCES & EXERCISE SCIENCE

The Effects of Acute and Chronic Exercise on Cognitive Functioning
Chris Reader Bellarmine University, Andrew D. Selk Bellarmine University, Seth Sigler Bellarmine University. Faculty Sponsors: Christy Kane Bellarmine University, Paul Loprinzi Bellarmine University
Ready, Set, Jump: Sensation Seekers, Alcohol and GPA Within College Students
Katie Swartz Miami University of Ohio. Faculty Sponsors: Rose Marie Ward Miami University of Ohio

Examining Gender Differences in Hangover Symptoms Among College Students
Scarlett Shader Miami University of Ohio. Faculty Sponsors: Rose Marie Ward Miami University of Ohio

Paul Farmer
Lauren Haltom Ball State University. Faculty Sponsors: Gerry Waite Ball State University

Dynamics in Community Health Project Timeline
Maurine Kingori Ball State University. Faculty Sponsors: Clare Chatot Ball State University

PHYSICS, MATHEMATICS & COMPUTER SCIENCE

Star Formation as a Result of Triggering in the Region of N90
Miranda DeHart Manchester University. Faculty Sponsors: Christer Watson Manchester University

Quantum Theory of Light Experiment Measuring $g_2(0)$ Values and Bell's Inequalities
Chandler Chapman Taylor University. Faculty Sponsors: Ken Kiers Taylor University

Equilibrium Position Predictions for Fluids Education Experiment
Kris Wiedenheft North Carolina A&T State University, Harry Bryant North Carolina A&T State University, Jade Mantell North Carolina A&T State University, Tyler Carter North Carolina A&T State University, Jason Cornatzer North Carolina A&T State University, Scott Johnson North Carolina A&T State University. Faculty Sponsors: John Kizito North Carolina A&T State University

Triggered Star Formation in Bubble N56
Paula Rodriguez Manchester University. Faculty Sponsors: Christer Watson Manchester University

Computational Thinking and Narrative Storytelling
Alex Hoffman Ball State University. Faculty Sponsors: Paul Gestwicki Ball State University
Observing Possible Cobalt Oxidation State Change in 15th Century Paintings
Stephen Roberts Butler University. Faculty Sponsors: Stacy O'Reilly Butler University

Inverse Demand-Diels-Alder Reactions of 3-Formylchromones
Aaron Sullivan Ohio Northern University, Daniel Steigerwald Ohio Northern University, Olivia Johntony Ohio Northern University, Ben Kasting Ohio Northern University

Iron-Catalyzed Synthesis of 3-Arylindoles: Annulation of Polymer Encapsulated Aryl Hydroxylamines with Alkynes
Kevin Schlenker Hanover College. Faculty Sponsors: Angus Lamar Hanover College

Development of a Green Method for the Production of Dihydropyrimidinones Through a Biginelli Reaction
Mike Rozzo Butler University. Faculty Sponsors: Anne Wilson Butler University

Detection of Nicotine and Cotinine in Human Hair by High Performance Liquid Chromatography
Kelsey Blaze Thomas More College. Faculty Sponsors: William Wetzel Thomas More College, Brian Myers Ohio Northern University, Jake Zimmerman Ohio Northern University

Photophysical Studies of Lanthanide Terpyridine Complexes
Ryan Golkowski Purdue University. Faculty Sponsors: David McMillin Purdue University

Effect of Altering Substitution of Alkenes on Dienyne Metathesis
Rachel Erkilla Butler University. Faculty Sponsors: LuAnne McNulty Butler University

Self-Assembled Monolayer Growth of Polyethylene Oxide on Polymer Electrolyte
Cassandra Hager Trine University. Faculty Sponsors: Anthony Layson Trine University

Microwave Digestion of Brood XIV Periodical Cicadas
Lydia Black Thomas More College. Faculty Sponsors: William Wetzel Thomas More College

Studies Toward the Mild Amino-Functionalization of Hydrocarbons
Alexander Brueckner Hanover College, Erin Hancock Hanover College, Seth Revolt Hanover College. Faculty Sponsors: Angus Lamar Hanover College

Trace Metal Analysis of Bone Ash, Portland Cement, and Human Cremated Remains by ICP-AES
Kelsey Sparks Thomas More College. Faculty Sponsors: William Wetzel Thomas More College, Christa Currie College of Mount St. Joseph

The Characterization of a Polyethylene Oxide-b-Polystyrene Block Copolymer
Veronica Livingstone Trine University. Faculty Sponsors: Anthony Layson Trine University

Synthesis of 5-Methyl-4-phthalimido-1,2,3-thiadiazole and 4-Phthalimidomethyl-1,2,3-thiadiazole
James Barton Franklin College, Vanessa Benham Franklin College. Faculty Sponsors: Nazir Khatri Franklin College
Synthesis and Analysis of Novel Tamoxifen Derivatives
Lauren Gutgesell Rose-Hulman Institute of Technology. Faculty Sponsors: Ross Weatherman Rose-Hulman Institute of Technology

Studies on a One-Pot Synthesis of Pyridooxazocine Bicycles from Homonicotinic Acid Esters and Aminoalcohols
Veronica Rodriguez Indiana State University, Dan Burkett Indiana State University. Faculty Sponsors: Richard Fitch Indiana State University

Solvent Effects on Excited-State Intramolecular Proton Transfer on Pyrrolopyrimidines
Courtney Olson Ohio Northern University. Faculty Sponsors: Nicole Karn Ohio Northern University

An Investigation of the Unique Structural Forms of a Bacterial Enzyme
Perry Rabin Butler University. Faculty Sponsors: Jeremy Johnson Butler University

Trimethylsilylation of Sugars via Hexamethyldisilazane
Punam Tiwana Purdue University Calumet, Alexander Masleid Purdue University Calumet. Faculty Sponsors: Harold Pinnick Purdue University Calumet
SESSION 2
12:00-P.M.-1:00 P.M. IRWIN LIBRARY

IRWIN LIBRARY LOWER LEVEL

ANTHROPOLOGY

Latina-Headed Households in Indianapolis and the Intersections of Food Accessibility, Cultural Traditions, and 'Americanized' Acculturation
Abigail Robison Butler University. Faculty Sponsors: Priscilla Ryder Butler University, Sholeh Shahrokhi Butler University

BUSINESS & ECONOMICS

Market Potential for Charitable Giving in People Under Forty
Jordan Poortenga Anderson University. Faculty Sponsors: Mike Wiese Anderson University

EDUCATION

Teacher Satisfaction within Huntington County School District
Elizabeth Bolinger Huntington University. Faculty Sponsors: Emily Horne Huntington University
Teaching in a Non-Normal Educational Setting - Child Life
Sara McDonald Butler University. Faculty Sponsors: Kathryn Brooks Butler University
Marsh & Cope: The Bone Wars
Andy Thompson Ball State University, Ethan Yazel Ball State University, You Wu Ball State University, Paisley Hansen Ball State University, Austin Pensinger Ball State University. Faculty Sponsors: Paul Gestwicki Ball State University

GENDER, WOMEN & SEXUALITY STUDIES

Mexican and Chicana Women’s Use of Art Expression in Overcoming Oppression
Stacey Sklepinski University of Michigan - Ann Arbor. Faculty Sponsors: Anthony Mora University of Michigan - Ann Arbor
HISTORY & CLASSICS
Charms, Prayers, Concoctions, and Pilgrimages: The Effectiveness of Learned Medicine versus Common Medicine During the Medieval Ages
Molly Nebiolo Butler University. Faculty Sponsors: Vivian Deno Butler University
Rap, Riot, and Rodney King: the 1992 LA Riots Revisited
Kevin Robey Purdue University. Faculty Sponsors: Melinda Zook Purdue University

INTERNATIONAL STUDIES
Analysis of Global Communications in the Middle East: The Case of Iran
Akeira Jennings Butler University, Robert Fenton Butler University, Michael Potts Butler University, Bree Stitt Butler University. Faculty Sponsors: Kwado Anokwa Butler University

MUSIC & DANCE
Double Stops from Beginning to Bach
Lisa Perfors Eastern Illinois University. Faculty Sponsors: Anna Cromwell Eastern Illinois University

POLITICAL SCIENCE
Environmentalism in the United States: A Study of Public Opinion and Congressional Voting Patterns
Robert Rowlett Anderson University. Faculty Sponsors: Daniel Allen Anderson University, Kimberly Lyle-Ippolito Anderson University

SOCIOLOGY
Drug Use among College Students at a Private University
Janice Mann University of Evansville. Faculty Sponsors: Mari Plikuhn University of Evansville
PSYCHOLOGY

Art and Education
Abby Goering Huntington University, Maggie Gilliam Huntington University, Paige Jones Huntington University. Faculty Sponsors: Emily Horne Huntington University

Aspects of Life Satisfaction
Noah Cicalo Indiana University-Kokomo. Faculty Sponsors: Kathryn Holcomb Indiana University-Kokomo

Assessment of Eating Disorders and Attention
Natalie Strzok Ball State University. Faculty Sponsors: Kristen Ritchey Ball State University

Cancer’s Effect on Hope
Duana McAninch Indiana University-Kokomo. Faculty Sponsors: Kathryn Holcomb Indiana University-Kokomo

Classroom anxiety reduction based on mindfulness training
John Straub Manchester University, Michael Boards Manchester University. Faculty Sponsors: Russell Coulter-Kern Manchester University

Weight-Related Attitudes, Behaviors, and Perceptions: The Influence of Mothers’
Behaviors on Daughters’ Self-Esteem and Body Image
Esther Higginbottom Huntington University, Heather Rapp Huntington University, Lauren Sowers Huntington University. Faculty Sponsors: Emily Horne Huntington University

Correlated Variables Linked to Loneliness in Huntington College Students
Chase Parnell Huntington University, Niki Beere Huntington University. Faculty Sponsors: Emily Horne Huntington University

Evaluating Differences in Cognitive Function After N-Acetyl-Cysteine Treatment in a Two-Hit Rat Model of Schizophrenia
Sarine Janetsian Indiana University/Purdue University at Indianapolis, Nadalie Cayetano Indiana University/Purdue University at Indianapolis. Faculty Sponsors: Christopher Lapish Indiana University/Purdue University at Indianapolis

Gender Bias in the Rosenberg Self-Esteem Scale
Audrey Perdew Ball State University. Faculty Sponsors: Thomas Holtgraves Ball State University

How College Students Finance Their Education and Their Drinking Behaviors
Kristen Couch Miami University of Ohio. Faculty Sponsors: Rose Marie Ward Miami University of Ohio

Party Now Pay Later: The Effect of College Alcohol Consumption on Future Income
Teresa Schwender Miami University of Ohio, Scarlett Shader Miami University of Ohio, Denise Buenger Miami University of Ohio, Dana Nocera Miami University of Ohio. Faculty Sponsors: Rose Marie Ward Miami University of Ohio

Prevalence of Sexually Explicit Material on a Christian Campus
Elise Kline Huntington University, Andrea Christener Huntington University, Anna O’Dell Huntington University. Faculty Sponsors: Emily Horne Huntington University

Relationship between Bulimia Nervosa and Social Factors
Rebekah Trout Huntington University. Faculty Sponsors: Emily Horne Huntington University
University Student Satisfaction on Classroom Assignments: What Students Really Want
Jessica Hernandez Manchester University. Faculty Sponsors: Marcie Coulter-Kern Manchester University

Student Attitudes Toward Concept Map, Essay, And Multiple Choice Testing
Natalie Strzok Ball State University, Joshua Pierce Ball State University, Matthew Ladwig Ball State University, Kayla Alves Ball State University. Faculty Sponsors: Darrell Butler Ball State University

Sweat It Out: Examining the Relationship Between Alcohol Consumption and Exercise
Abby Gilligan Miami University of Ohio. Faculty Sponsors: Rose Marie Ward Miami University of Ohio

Television and Beauty Perceptions
Brittany Harp Indiana University-Kokomo. Faculty Sponsors: Kathryn Holcomb Indiana University-Kokomo

The Relationship between Education Level and Self-Disclosure on Facebook
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