

# IUURC – Program 2017

IUPUI Campus, Campus Center

November 17, 2017

8:00 am – 3:30 pm

Time	Event	Room	Disciplines
8:00-11:00 am	Registration, Poster Set Up	Lounge, 4 <sup>th</sup> floor	
8:00-10:00 am	Continental Breakfast	Lounge, 4 <sup>th</sup> floor	
8:30-10:00 am	Final Competition (closed door)	406	
<b>Breakout Sessions: 9:00-10:00 am</b>			
9:00-10:00 am	Poster Session I (P1-P30)	450 B and C	Health & Life Sciences Social & Behavioral Sciences STEM
9:10-10:00 am	Oral A	450 A	Health & Life Sciences
9:10-10:00 am	Oral B	405	STEM
9:10-10:00 am	Oral C	409	Social & Behavioral Sciences
<b>Key Note Address: 10:15-11:00 am</b>			
10:15-10:50 am	<b>AVP Faith Hawkins</b>	CE Theater, basement	
10:50-11:00 am	IUURC Competition Awards	CE Theater, basement	
<b>Breakout Sessions: 11:15-12:15 pm</b>			
11:15-12:15 pm	Poster Session II (P31-P62)	450 B and C	All disciplines
11:15-12:15 pm	Oral D	450 A	Social & Behavioral Sciences
11:15-12:15 pm	Oral E	405	Arts & Humanities
11:15-12:15 pm	Oral F	409	Education, Business
<b>Lunch Break</b>			
<b>Breakout Sessions: 1:15-2:15 pm</b>			
1:15-2:15 pm	Poster Session III (P63-P90)	450 B and C	Health & Life Sciences Social & Behavioral Sciences STEM
1:15-2:15 pm	Oral G	450 A	STEM
1:15-2:15 pm	Oral H	405	Social & Behavioral Sciences
1:15-2:15 pm	Oral I	409	Health & Life Sciences
<b>Breakout Sessions: 2:25-3:25 pm</b>			
2:25-3:25 pm	Oral J	450 A	Social & Behavioral Sciences
2:25-3:25 pm	Oral K	405	Health & Life Sciences
2:25-3:25 pm	Oral L	409	Arts & Humanities

## Oral Presentations

### **Oral Session A - Room 450A**

9:10am - 10:00am - Health and Life Sciences

- O1. Adib Behrouzi (IUPUI) - Investigation of the Cold-Regulated Promoter RD29A in *Arabidopsis thaliana* and *Glycine max*
- O2. Katherine Fisher (Bloomington) - Effects of smoke alarm loss in nociceptive neurons of *Drosophila*
- O3. Abigail Parker (IUPUI) - Developmental and Sex-Specific Differences in Trisomic *Dyrk1a* Expression in Brain Regions of Ts65Dn- Down Syndrome Mice
- O4. Dania Aqeel (IUPUI) - Reducing sedentary time in Fibromyalgia patients: Study design and protocol

### **Oral Session B - Room 405**

9:10am - 10:00am - STEM

- O5. Ibrahim Momoh (IUPUI) - Synthesis and Characterization of Nano Sensing Devices
- O6. Jiva Capulong (IUPUI) - Identifying Key User Requirements for Campus Food Insecurity Through Participatory Design Workshops
- O7. Keiland Cooper (Bloomington) - Bridging The Gap: Natural Computation of Neural Systems
- O8. Anthony Coniglio (Bloomington) - Noise-Induced Stabilization of Perturbed Hamiltonian Systems

### **Oral Session C - Room 409**

9:10am - 10:00am - Social Behavioral Sciences

- O9. Michelle Ramirez (IUPUI) - Lihawu Male Mentoring Camp: Understanding the Long Term Impacts on Attitudes and Perceptions Relating to Male Circumcision, HIV/STI Knowledge, Gender Inequalities and Masculinities in Swaziland
- O10. Chase Abram (Bloomington) - Implications of Expectation Formation in Monetary-Fiscal Policy Interactions
- O11. Alexis Randle (IUPUI) - Defining Shared Decision-Making in Lung Cancer Screening: A Concept Analysis
- O12. Andrew Fields (Kokomo) - Persona Theory: Understanding Masculinity Through Old Spice Commercials

### **Oral Session D - Room 405A**

11:15am - 12:15pm - Social Behavioral Sciences

- O13. Chalee Lightsey (Southeast) - Cracking the Social Media and Depression Code
- O14. Stefan Dalecki (Bloomington) - a test of the reward-contrast hypothesis
- O15. Genesis Blair (Southeast) - Fracking in the United States
- O16. Courtney Morgan (Southeast) - Association between the Big Five Personality Traits and Facebook Usage
- O17. Jonathan Sturgill (Southeast) - The Substance of Personality: Alcohol and Marijuana as Possible Predictors of Personality

### **Oral Session E - Room 405**

11:15am - 12:15pm - Arts and Humanities

- O18. Varshini Balaji (IUPUI) - Decolonizing Methodologies and Allyship: Language, Power, Identity
- O19. Adam Smith (Bloomington) - Unrecognized Violence: Ideations of Physical Harm in La jongleuse
- O20. Himali Patel (Northwest) - Nicotinoid Clothianidin: Isolation and Detection within Local Honey Matrixes to Elucidate Environmental Impact in NWI Regions
- O21. Olivia Doyon (Southeast) - The Magic and Mysticism in the Created World of Yayoi Kusama and Niki De Saint Phalle
- O22. Levi Dunn (Southeast) - Bees: An Excursion into Literary Style, Making Money with Academic Creative Writing, and Research as a Fundamental Component of Novel Writing

### **Oral Session F - Room 409**

11:15am - 12:15pm - Education/Business

- O23. Cameron Clark (Southeast) - Sports in a Third World Country. More than just a sport?
- O24. Wendy Headrick (Southeast) - Auto Immune Predispositions: Are Genetic or Environmental Factors to blame?
- O25. Li Liu (Bloomington) - The Impact of Institution Characteristics on Initial Job Placement in US Economics PhD programs
- O26. Don McCraig (IUPUI) - A Review of the BRICS Countries and How They Could Shake Up the World Economy
- O27. Jacey Stuckey (IUPUI) - Private Equity and Its Effects on Retailers

**Oral Session G - Room 405a**

1:15pm - 2:15pm - STEM

- O28. Noah Schlossberger (Bloomington) – Probing for Lorentz Symmetry Violation in Electrons Using Trapped Yb+Ions
- O29. Nicholas Miljevic (Northwest) - Progress Towards the Total Synthesis of Ophiorrhisine A
- O30. Alex Solivais (Northwest) - Assessing Concentration Levels of Imidacloprid in NWI Honey Samples
- O31. Justin Butler (Southeast) - Predicting for Fun and Hopefully Profit
- O32. Meeta Cesler-Maloney (Southeast) - Quantifying the Relationship between Ozone and Meteorology during the Arctic Spring

**Oral Session H - Room 405**

1:15pm - 2:15pm - Social Behavioral Sciences

- O33. Dakota Hendrick (Southeast) - Trenches, Nukes, and the Forgotten Helicopter
- O34. Brandon Zellers (Southeast) - Mother Jones did not die on the cross so you that could 'spout this mess to me: Appalachian Migration Patterns and the Industrial Expansion (1880-1914)
- O35. Colton Wade (Southeast) - College Students' Perspective of Debt as Risk
- O36. Danielle Marr (Southeast) - Coloring Mandalas as a Coping Mechanism for anxiety in Men and Women.
- O37. Aric Miller (Southeast) - "What God Hath Wrought": The internet and social media; the potential issues for U.S. Society.

**Oral Session I - Room 409**

1:15pm - 2:15pm - Life and Health Sciences

- O38. Juan Sanchez (IUPUI) - Corticosterone Regulation of PDE10A Expression in Male and Female Rats
- O39. Alison Lindsay (IUPUI) - Assessment of TLR-2 expression in salivary epithelial cells for early identification of periodontitis
- O40. Elefteria Onwuaduegbo (IUPUI) - Using a mathematical model of sepsis to predict survivability conditions for an infection
- O41. Harleen Aujla (Northwest) - Detecting Antibiotic-Resistant Bacteria in the Human Microbiome
- O42. Joseph Boone (IUPUI) - Using Chloroquine to Inhibit Autophagy and Increase Pancreatic Cancer Radiation Sensitivity

**Oral Session J - Room 450a**

2:25pm - 3:25pm - Social Behavioral Sciences

- O43. Loren Burke (Southeast) - Emotional Intelligence and Being Raised in a Household with an Individual with a Disability
- O44. Ashley Brown (Southeast) - Effects of Anxiety on Academic Performance, Measured In College Students
- O45. Paloma Maldonado (Northwest) - A Qualitative Study of Student Engagement with Online Courses: Strategies and Practices\*
- O46. Emily Fleming (Southeast) - The Influence of Religiosity on Sexual Behaviors and Attitudes
- O47. Reuben Nehrt (Southeast) - Efficacy of Antidepressant Medication

**Oral Session K - Room 405**

2:25pm - 3:25pm - Life and Health Sciences

- O48. Hunter DeHaan (Northwest) - Analysis of Me31B Protein localization During Egg Development Through RNAi
- O49. Aidan McCambridge (Northwest) - Identifying The Me31B Complex Components In Germ Granules
- O50. Angela Sabo (Southeast) - Isolating, Purifying, and Genetically Identifying Novel Bacteriophages from Southern Indiana Water Samples
- O51. Ishani Sharma (Northwest) - Type II Diabetes and Obesity Resulting from Irregular Sleep Cycles
- O52. Dhruv Solanki (Northwest)

**Oral Session L - Room 409**

2:25pm - 3:25pm - Arts and Humanities

- O53. Rachel Bailey (Southeast) - Visualizing the Visceral: Works by Rachael Bailey
- O54. Anna Guse (Bloomington) - The Role of Inmate-Centered Prison Theatre Arts Programs in Community Development
- O55. Kathryn Combs (Southeast) - Looking Longer
- O56. Hallie Martin (Southeast) - Woman displayed in everyday activities
- O57. Levi Dunn (Southeast) - The Positive Influence of the Writing Fellows Program on Professor, Fellow, and Students.

## Poster Presentations

### Session I 9:00-10:00 am

- P1. Lane Skutt - Understanding Valuation of Personal Information  
P2. Adam Barnhill - The Experience of Racial Discrimination on Health Outcomes: the Moderating Impact of Mindfulness  
P3. Huimeng Zhao - Are Great Researchers Terrible Teachers? —How Research and Teaching Performance Relate at U.S. Universities  
P4. Holly Ware – No Title  
P5. Ian Carson - Family and Peer Influences on Substance Use among Juvenile Justice Involved Youth  
P6. Andrew Zeros - Perceived Masculinity, Substance Use, Depression and Sexual Anxiety among Adolescent Males  
P7. WITHDRAWN  
P8. Emily Hoover - Law Enforcement Brutality and Race  
P9. Esther Yoon - Neural Correlates of Executive Functioning in Toddlers  
P10. Taylor Pemberton - The Moderating Effect of Relationship Status on Hazardous Alcohol Use and Risky Sexual Behavior among College Students  
P11. Meagan Borchelt - Social Norms and Charitable Donations  
P12. George Coffin - The Relationship Between Psychological Factors and Cognitive Performance in People with Schizophrenia  
P13. Tial Rem - NMR Spectroscopy of Serotonin Interacting with Lipid Vesicles  
P14. Winyu Sheriff - The Composition of *Salvadora Persica* Using an HPLC-MS Method  
P15. Austin Will - Decoupling an Endosymbiotic Mutualism  
P16. Andrew Folz - Examining *Dyrk1a* Levels in Young Trisomic and Euploid Male Mice  
P17. Sean Turner - Contrasting Bone Phenotypes in the Different Mouse Models of Down Syndrome Suggests Trisomic *Dyrk1a* Does Not Act Alone  
P18. Alekhya Govindaraju - Lactate Utilization by the Bacterium *Rhodospseudomonas palustris* Through Either Conditioning or Co-Consumption with Other Organic Acids  
P19. Katelyn Doyle - Phytoplankton Community Dynamics: response to thermal alteration of an unidentified picoeukaryote  
P20. Symphony Davis - Researching a Pharmaceutical Treatment For Hydrocephalus  
P21. Sinai Valdez - Mechanism of osteoclast differentiation induced by apoptotic osteocytes  
P22. Jenna Bingham - Fluoroamide-Directed Fluorination of Unactivated C–H Bonds  
P23. Thomas Crail - Why do stars become red giants?  
P24. Mikaela Greer - Automated Derivatization of Methamphetamine Using Total Vaporization Solid Phase Microextraction  
P25. Christina Martin - Effects of the Interaction Between Lipid Membranes and Neurotransmitters  
P26. Ricardo Martinez - Characterization of Endocannabinoid Signaling on Cerebellar Development  
P27. Kiyomi Kukoyi - Interactions Between Glutamate and Phosphocholine Lipid Bilayers  
P28. Lydia Hawthorne - Developing a Phenotypic Profile  
P29. Henry Worley - Creation of Hybrid Photoactive Inorganic/Organic Interface Assemblies of Cadmium Oxide mixtures (CdO<sub>2</sub>/CdO)/Poly(2,2 Bithiophene): Optical and Photoelectrochemical Investigations  
P30. Meghan Russell - Synthesis of U24 Nanoclusters

### Session II 11:15 am – 12:15 pm

- P31. WITHDRAWN  
P32. WITHDRAWN  
P33. Jared Willis - How Are Coastal Cities Adapting to Rising Ocean Levels? Exploring possible outcomes and adaptations of cities affected by rising ocean levels  
P34. Ethan Galloway - Introduction and Distribution of Disease as a Result of British Colonization of North America  
P35. Marguerite Timan - How Food Preservation Advanced Civilization  
P36. Alexandria McCorkle - Evidence of Inclusion (EoI) on College and University Websites: Hide-N-Seek for Available Resources  
P37. Megan Perkins – A Preliminary Investigation of Bridging High School Chemistry to University Level Chemistry  
P38. Cassidy Smith - Teaching Strategies In The Chemistry Classroom  
P39. Zachary Courtney - A Collaborative Visual Analytics System for Cyber Defense Analysis  
P40. Amanda Echegaray - The Effects of a Virtual Mentor Vs. A Physical Mentor  
P41. Timothy Mahajan - Systems Pharmacology Approach for the Prediction of Adverse Drug Reactions  
P42. Audra Lawler - Developing a Social Media Strategy for a Small Non-Profit Organization: More Conversation, Less Marketing  
P43. Carolina Cardona - Additive manufacturing (3D printing) with recycled HDPE

- P44. Wesley Seiderman - Growable Fuel. The Emergence of Aquaponics and the Cultivation of Renewable Oils
- P45. Asel Habarakada - Spray Drying Fabrication of High Quality Graphene and Graphene's Applications on Energy Storage
- P46. Debi Pellam - Profits of Racism Within the Prison System
- P47. Chelsey Blair - Neurological Function in Perception
- P48. Glenn Giles Jr. - Racial ambiguity and race essentialism in interracial interactions: perceptions, expectations, and identity contingencies
- P49. Adam Schwartz - Sympathetic Nervous System Activity and its effect on Implicit Race Bias
- P50. Celine Aslinia - Social Norms of Prejudice: Investigating Perceptions of Stigmatized Groups
- P51. Jossalyn Deleon - Hiring Decisions: Evaluation of Hiring Processes
- P52. Anton Lindsay - Masked Racism: Prison Industrial Complex
- P53. Crystal Neely - Coping and Anxiety Study
- P54. Jared Nierman - Architecture and Construction and Social Significance of the Great Pyramids
- P55. Amira Nafiseh - Qualitative Coding, Community Engagement, and Decision Making in Healthcare
- P56. Leah Trail - Discovering the Difference: Examining Personality Traits and Handedness
- P57. Eddie Miles – No Title
- P58. Nickolas Nixon - Food Preservation and Production
- P59. Katelyn Laypoole - Police Discrimination and Race
- P60. Jenn Daniel - Adverse Childhood Experiences and College Completion
- P61. WITHDRAWN
- P62. Brian Robinson - Internet Free for All. A "Free" Internet and Democracy for Promotion of STS and Education

### **SESSION III 1:15-2:15 pm**

- P63. Jessica Carter - Foolish or Heroic?: The Influence of Perpetrator Status on Perceptions of Those who - Confront Prejudice
- P64. Ethan Schafer - The viability of Solar Power in the Upper Mid-West of the United States
- P65. Angela Brewer - Children of Immigration: Challenges to Normalcy
- P66. Kirstin Clephane - Distractibility from Sexual Stimuli as a Mediator of Maternal Stress and Partner - Partner Intimacy Section
- P67. Cassidy Bush - Crime against Women
- P68. Brittony House - Racial Profiling Against Juveniles
- P69. Sara Key - Social Media Research
- P70. Arlanda Rainey - Effect of Children's Exposure to Violence
- P71. Dana Frank - Introducing the Feeding Minds Project: Asset Mapping to Aid the Food Insecure
- P72. Caleb Bell - Congenital Adrenal Hyperplasia (CAH): Understanding how CAH Changed my Life.
- P73. Aishat Audu - Function Analysis of p53 in Ovarian Cancer Development
- P74. Delaney Halloran - Role of the *HfaD* C-terminal Amyloid Domain in *Caulobacter crescentus* Attachment
- P75. Umer Khan - Induction of ALDH1A1 in ovarian cancer cells leads to chemoresistance
- P76. Reese Miller - Discovery and purification of bacteriophage in water samples
- P77. Ashely Moore - Characterization and Classification of Three Phages
- P78. Megan Bailey - Does Early Childhood Drug Education Provide Diversion from Using Drugs and/or Alcohol?
- P79. Emilie Harvey - Beliefs and Fears of Pregnant Women with Opioid Use Disorder
- P80. Rachel Long - Elucidating the End-Of-Life Experience for Persons with ALS
- P81. Celia Ochoa - UV Nucleotide Binding Site Photocrosslinking of Antibodies at Various Light Intensities
- P82. Jessica Felker - Cranial Window Surgery for Longitudinal Imaging in Mice
- P83. Tiffany Xie - RNA sequencing studies identify several putative mGluR5 downstream targets
- P84. James Roberts - A New Form of Alternative Energy: Algae Farming
- P85. Antonio Salas - Variation in temperature during early development affects embryonic nonpolar lipid contents in Snapping Turtles (*Chelydra serpentina*)
- P86. Ameera Minhas - Water Contaminants and Their Impacts on Human Health in Urban Areas of Rawalpindi, Pakistan
- P87. Aaron Day - Hafnium Triflate: A highly efficient Catalyst in the Acylation of Alcohols and Polyols with Hindered Anhydrides
- P88. Shawn Green - Exploring the Use of Palladium Catalyst in the formation of Acetals and Ketals
- P89. Kaila Shaffer - Quantifying Halides in the Ohio River to Assess Potential for Ozone Depletion Chemistry
- P90. Beau Wimsatt - One of the Greatest Scientific Discoveries! Exploring the Photoelectric Effect