<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Room</th>
<th>Topic Area</th>
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<tbody>
<tr>
<td>8:00-11:00 am</td>
<td>Registration</td>
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<tr>
<td>8:00-10:00 am</td>
<td>Continental Breakfast</td>
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<tr>
<td>8:30-10:00 am</td>
<td>Final Competition (closed to public)</td>
<td>Room C</td>
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**Breakout Sessions: 9:00-10:05 am**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Room</th>
<th>Topic Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00-10:00 am</td>
<td><strong>Poster Session I</strong></td>
<td>Lobby</td>
<td>STEM</td>
</tr>
<tr>
<td></td>
<td><em>Posters P1 – P21</em></td>
<td></td>
<td>Health &amp; Life Sciences</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Social &amp; Behavioral Sciences</td>
</tr>
<tr>
<td>9:15-10:05 am</td>
<td><strong>Oral A</strong></td>
<td>Room A</td>
<td>Arts &amp; Humanities</td>
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<tr>
<td></td>
<td><em>Talks O 1 – O 4</em></td>
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<td>SPEA</td>
</tr>
<tr>
<td>9:15-10:05 am</td>
<td><strong>Oral B</strong></td>
<td>Room B</td>
<td>Health &amp; Life Sciences</td>
</tr>
<tr>
<td></td>
<td><em>Talks O 5 – O 8</em></td>
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<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Room</th>
<th>Topic Area</th>
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</thead>
<tbody>
<tr>
<td>10:15-10:20 am</td>
<td>Welcome – Dominique Galli, CRL Dir.</td>
<td>Auditorium</td>
<td></td>
</tr>
<tr>
<td>10:20-10:55 am</td>
<td>Key Note – Fred Cate, VP Research</td>
<td>Auditorium</td>
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**Breakout Sessions: 11:00 am -12:00 pm**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Room</th>
<th>Topic Area</th>
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</thead>
<tbody>
<tr>
<td>11:00-12:00 pm</td>
<td><strong>Poster Session II</strong></td>
<td>Lobby</td>
<td>Life &amp; Health Sciences</td>
</tr>
<tr>
<td></td>
<td><em>Posters P22 – P51</em></td>
<td></td>
<td>Social &amp; Behavioral Sciences</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>STEM</td>
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<tr>
<td></td>
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<td>Business</td>
</tr>
<tr>
<td>11:00-12:00 pm</td>
<td><strong>Oral C</strong></td>
<td>Auditorium</td>
<td>Social &amp; Behavioral Sciences</td>
</tr>
<tr>
<td></td>
<td><em>Talks O 9 – O 13</em></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11:00-12:00 pm</td>
<td><strong>Oral D</strong></td>
<td>Room A</td>
<td>Social &amp; Behavioral Sciences</td>
</tr>
<tr>
<td></td>
<td><em>Talks O 14 – O 18</em></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11:00-12:00 pm</td>
<td><strong>Oral E</strong></td>
<td>Room B</td>
<td>Arts &amp; Humanities</td>
</tr>
<tr>
<td></td>
<td><em>Talks O 19 – O 23</em></td>
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**Lunch Break**

**IUURC Awards: 1:00-1:15 pm**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Room</th>
<th>Topic Area</th>
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</thead>
<tbody>
<tr>
<td>1:00-1:15 pm</td>
<td>IUURC Competition Awards Ceremony</td>
<td>Auditorium</td>
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**Breakout Sessions: 1:20-2:20 pm**

<table>
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<tr>
<th>Time</th>
<th>Event</th>
<th>Room</th>
<th>Topic Area</th>
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</thead>
<tbody>
<tr>
<td>1:20-2:20 pm</td>
<td><strong>Poster Session III</strong></td>
<td>Lobby</td>
<td>Social &amp; Behavioral Sciences</td>
</tr>
<tr>
<td></td>
<td><em>Posters P52 – P81</em></td>
<td></td>
<td>Arts &amp; Humanities</td>
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<tr>
<td>1:20-2:20 pm</td>
<td><strong>Oral F</strong></td>
<td>Auditorium</td>
<td>Health &amp; Life Sciences</td>
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<tr>
<td></td>
<td><em>Talks O 24 – O 28</em></td>
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<tr>
<td>1:20-2:20 pm</td>
<td><strong>Oral G</strong></td>
<td>Room A</td>
<td>STEM</td>
</tr>
<tr>
<td></td>
<td><em>Talks O 29 – O 33</em></td>
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<tr>
<td>1:20-2:20 pm</td>
<td><strong>Oral H</strong></td>
<td>Room B</td>
<td>Health &amp; Life Sciences</td>
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<tr>
<td></td>
<td><em>Talks O 34 – O 38</em></td>
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**Breakout Sessions: 2:30-3:30 pm**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Room</th>
<th>Topic Area</th>
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<tbody>
<tr>
<td>2:30-3:30 pm</td>
<td><strong>Oral I</strong></td>
<td>Auditorium</td>
<td>Social &amp; Behavioral Sciences</td>
</tr>
<tr>
<td></td>
<td><em>Talks O 39 – O 43</em></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2:30-3:30 pm</td>
<td><strong>Oral J</strong></td>
<td>Room A</td>
<td>Social &amp; Behavioral Sciences</td>
</tr>
<tr>
<td></td>
<td><em>Talks O 44 – O 48</em></td>
<td></td>
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<tr>
<td>2:30-3:30 pm</td>
<td><strong>Oral K</strong></td>
<td>Room B</td>
<td>Arts &amp; Humanities</td>
</tr>
<tr>
<td></td>
<td><em>Talks O 49 – O 52</em></td>
<td></td>
<td>Health &amp; Life Sciences</td>
</tr>
</tbody>
</table>
**Poster Session I**  
9:00am – 10am


P2. Collins, Daniel (IUPUI) – Electrochemical Detection of Inorganic Materials Used in Explosives

P3. Powell, Kristen (IUPUI) – Microfluidic Device for the Encapsulation of Bacteria in Droplets

P4. Kasacheuski, Uladzimir (IUPUI) - Computational Optimization of Hybrid Cellular Automaton Model of Cell Spheroids Metabolism

P5. Esperanca, Alvaro (IUPUI) – Development of a Low Cost Non-Optical Motion Capture System for Rapid Clinical Assessment of Pathological Gait

P6. Miller, Doryan (Bloomington) – Examining Globular Clusters in the Blanco DECam Bulge Survey

P7. Reger, Roy (Bloomington) – Neutral Hydrogen Analysis of the Dwarf Irregular Galaxy WLM

P8. Burnett, Jeremy (IU Kokomo) – Numerical Simulation of Accretion Induced Collapse of One Component of a Double White Dwarf Binary System

P9. Chen, Jaiwei (Bloomington) – Up in the Air: Ground Effect of Propellers and Altitude

P10. Justiniano, Amanda (IUPUI) – Test Suite Node Manager

P11. Roberts, Holly (Kokomo) – Analyzing Geographic Structure Using Genetic Variation of Elymus Canadensis

P12. Delgado, Fatima (IUPUI) – Comparing the effectiveness of the normalization of Dyrkla in rescuing cognitive phenotypes in a Ts65Dn model of Down Syndrome

P13. Anderson, Matthew (IUPUI) – Regulation of Actin-Based protrusions by the hedgehog Pathway

P14. Dietl, Taylor (IUPUI) – The Effects of Garlic on Nicotine-Induced Streptococcus Mutans Biofilm Formation

P15. Hackett, Jason (IUPUI) – Effect of Kinesio Tape on Heat Pain Sensitivity


P17. Wind, Brandon (IUPUI) – The Effect of Transcranial Direct Current Stimulation on Conditioned Pain Modulation in Healthy Older Adults

P18. Singer, Siarra (Kokomo) – Transition to Kindergarten for Students with Special Needs: A Review of the Literature


P20. Christian, Aspen (IUPUI) – Access to Physical Activity in Mapleton-Fall Creek: An Ethnographic Project

P21. Jettinghoff, William (Bloomington) - Free Will Belief as a Predictor of Self-Handicapping
Poster Session II
11am – 12:00pm

P22. Kowalczyk, Dominik (Northwest) - Peptidoglycan Recognition Proteins Kill Escherichia Coli by Inducing Oxidative Stress

P23. Petri, Belinda (Southeast) – Investigating Protein Interactions of the Pyridoxal 5’-Phosphate Synthase Complex of Arabidopsis Thaliana

P24. Divine, Kenedi (Southeast) – GC-MS Studies of Time-Dependent Compositional Change in Single-Plant Extract

P26. Fee, Casey (Southeast) – Effectiveness of Childhood Immunizations in Honduras

P27. Soy, Stefanie (Northwest) – Quantitative/Qualitative Analysis of Neonicotinoids and Glyphosate in Northwest Indiana Honey and Was Samples

P28. Yang, Christine (Bloomington) – Synthesis and Analysis of Gold Nanorod Encapsidating Virus-like Particles with TEM and AFM

P29. Parker, Abigail (IUPUI) – Cognitive Therapeutics in a Mouse Model of Down Syndrome: Comparison of Pharmacological and Genetic Targeting of Dyrk1a in Ts65Dn Mice on Spatial Navigation Performance in the Morris Water Maze

P30. Beliveau, Michelle (South Bend) – The Similarities between Christianity and New Religious Movements: Are people’s perception of Christianity and New Religious Moments dependent on their level of religiosity

P31. Enoch Oduro, Enoch (South Bend) – Who is to Blame for Your Procrastination

P32. Acton, Aaron (Southeast) – Video Games and Education: Why They Should Be Friends

P33. Barrett, Anne (Southeast) – The Influence of Humor on Word Memory

P34. Chumley, Stefanie (Southeast) – Learning Style Perceptions: Teachers’ Perceptions of Student Learning Styles

P35. Cooper, Chandler (Southeast) – Creating an Online Community

P36. Eatridge, Jordan (Southeast) – First We Dream: Exploring the Function of Dreaming as a Learning Process

P37. Wysong, Brandon (Kokomo) – Differential Effects of Heavy Metal Ions on Recombinant Green-Fluorescent Protein (GFP)

P38. Elmastry, Mary (Kokomo) – Photo electrochemical and Magnetic Studies on Photoactive Interface poly 2,2 Bithiophene/Fe2O3

P39. Alexeev, Evgueni (Bloomington) – Analysis of Kaon Pair Production from the CLAS Detector

P40. Metangmo, Armelle (IUPUI) – Electrochemical Detection of Bacteria in Food and Water Using Paper-based Devices

P41. Strobel, Oliver (IUPUI) – Cloning and Expression of the Putative Benzoylformate Decarboxylases from S. Sulfataricus and A

P42. Day, Aaron (Southeast) – Hafnium Inspired Acylation of Alcohols and Polyols with Hindered Anhydrides

P43. Earl, Lindsey (Southeast) – Highly Efficient Copper Inspired acylation of Alcohols and Polyols

P44. Shelton, Michaela (Southeast) – Exploring the Use of Cationic Copper Catalyst in the formation of Glycosides

P45. Flannery, Coty (Southeast) – A Study of Deltaic Sediments at Seven Springs Lake Harrison County, Indiana

P46. Luther, Laura (IUPUI) – Characterization of ABS-HDPE Blended Virgin Filaments

P47. Nguyen, Michelle (IUPUI) – Introducing High Precision MEMS/NEMS Research Components into Electrical Engineering Elective Course


P49. Abdo, Jonathan (IUPUI) – Tracking the Deadly Chronic Diseases Through Social Media

P50. Agho, Amadin (IUPUI) – The Roles Gender and Service Experience Play in Tipping Behavior Among Millennials

P51. McCraig, Don (IUPUI) – Are the BRICS Countries on The Decline?
Poster Session III
1:20pm – 2:20pm

P52. Rhodes, Jamieson (IUPUI) – “Teachers’ Perspectives of Diverse Classrooms Explored Through Oral History
P53. Zuccarelli, Tyler (Northwest) – Stranger
P55. Eley, Kenda (Southeast) – Making Education Accessible to All
P56. Grantz, Brooklin (Southeast) – Handouts and the Writing Center OWL
P57. Hall, Taryn (Southeast) – An Examination of the Pilot Semester of IU Southeast’s Writing Fellows Program
P58. Lingard, Jeffrey (Southeast) – How the Internet Can Change the Third World
P59. Sawdy, Mallory (Southeast) – Promoting Professional Writing Skills Within the Community; Using the University as the Vessel for Community Engagement
P60. Woodward, Abigail (Southeast) – Creating a Universal Writing Center
P61. Eddleman, Paula (Southeast) – A Pilot Study: The Effects of Social Exclusion on Aggression
P62. Goodrow, Faron (Southeast) – Emotions, Happiness, and Personality
P63. Guernsey, Skylar (Southeast) – Are you hungry
P64. Johnson, Robert (Southeast) – Gender Differences of College Aged Individuals in Relation to Stress Coping Strategies
P65. Johnson, Lindsay (Southeast) – Social Anxiety and Its Effect on Online Relationships
P66. Gordon, Brianna (Bloomington) – Effects of Friendship Networks and Incentive Goals in Interracial Interactions
P67. Million, Brandon (IUPUC) – Social Rejection and Ostracism within the Gay Community
P68. Riney, Hailee (Southeast) – Difficulties in Dating Relationships
P69. Schwartz, Adam (Southeast) – A Pilot Study: Salivary Cortisol Concentrations Following Cyberball and Cold-Pressor
P70. Glaab, Jessica (Southeast) – Gender Differences in Romantic Partner Preferences
P71. Hook, Kassadye (Kokomo) – Evidence of Inclusion on College and University Websites
P72. Tutrow, Kaylee (IUPUI) – Examining the Relationship between Self-Distancing and Prosocial Behavior
P73. Schad, Elizabeth (Southeast) – Does Level of Education Predict Implicit Bias in a Simulated Police-Shooting Task
P74. Alexander, Alexis (Southeast) – Stress and Creative Arts
P75. Fredrickson, Andrew (Southeast) – Born to Rock: The Relationship Between Music Preference, Birth Order, and Personality
P76. Fedders, Taylor (Southeast) – Does Propensity for Risk-Taking Predict Shoot-No Shoot Decisions in the Police Officers Dilemma Task
P77. Nolan, Izzy (Southeast) – Negative Parasocial Relationships and Anxiety
P78. Bays, Emma (Southeast) – Does Neuroticism Predict Shooting Errors in a Simulated Police-Shooting Task
P79. Tooker, Elleah (South Bend) – Attitudes Towards Morality
P80. Nelson-Bass, Christian (Southeast) – Color and Memory: Understanding factors in visual processing
P81. Ragsdale, Katelyn (Southeast) – The Art of Looking
Oral Session A – Room A
9:15am – 10:15am

O1. Brown, Alexus (IUPUI) – The Effects of Community Satisfaction on Trust in Government
O2. Willard, Simon (Bloomington) – The Poor Get Pooer…Or Do They?
O3. Johnson, Monique (IUPUI) – The Eldercare of African-Americans in the Nineteenth Century
O4. Egunyomi, Ayobami (IUPUI) – Economic Impacts of Mass Incarceration on African American Families

Oral Session B – Room B
9:15 – 10:15am

O5. Otun, Ayodamola (IUPUI) – Inflammatory Molecules and the Activation of the TRPV4 Channel in the Choroid Plexus Cells
O6. Lindsay, Nicole (IUPUI) – Effect of Tobacco Components on S.mutans and P.aeruginosa Biofilm Formation
O7. Thomas, Jared (IUPUI) – Skeletal Abnormalities Exhibit Sexual Dimorphism in Down Syndrome Mice
O8. Aqeel, Dania (IUPUI) – Kinesio Tape for Pain Reduction: More than a Placebo Effect?

Oral Session C – Auditorium
11am – 12:00pm

O9. Bunnell, Vickie (Southeast) – Is Mom and Dad’s Perfectionism Killing True Love for the Next Generation?
O10. Roa Gonzalez, Manuela (IUPUI) – The Differential Influences of Hope and Optimism of Life Satisfaction and Perceived Stress
O11. Bieker, Jenna (Southeast) – Selfies and Perceived Narcissism
O13. Casper, Kassandra (Southeast) – Exercise Habits and Relationship Satisfaction

Oral Session D – Room A
11am – 12:00pm

O14. Harvey, Jesse (Southeast) – Source Memory and Anxiety
O15. Hasenour, Nicole (Southeast) – Commuter vs. Residential College Students: Student Involvement
O16. Alexander, Hope (Southeast) – The Impact of Interest Groups on the Polarization of the United States Congress.
O17. Clark, Neal (Southeast) – Examining the Relationships between Social Capital, Social Comparison, Social Capital Maintenance Behaviors, Emotional Intelligence in Facebook Users
O18. Coursin, Jillian (Southeast) – Understanding Alexithymia Within Cultural Constructs
Oral Session E – Room B
11am – 12:00pm

O19. Bivol, Laurentia (Northwest) – *Dido Elizabeth Belle*
O20. Khan, Humaira (Northwest) – *Children in the Atlantic Slave Trade*
O21. Salisbury, Stephen (South Bend) – *Why Won’t You Stay: A Quantitative Sociological Analysis of Factors Influencing Retention at IU South Bend*
O22. Attebury, Mikael (Southeast) – *Oil and Water: Creative Writing in the Writing Center*
O23. Kirchgessner, Aspen (Southeast) – *The World and Writing Centers*

Oral Session F – Auditorium
1:20pm – 2:20pm

O24. Morris, Cameron (IUPUI) – *Molecular Cascades and Potential Implications of the Spinophilin and SAPAP3 Interaction on Basal Ganglia Disorders*
O25. Kamanda, Patricia (Bloomington) – *Studies of the Oncometabolite 2-Hydroxyglutarate*
O26. Hayden, Lori (Southeast) – *Results of a short-term Bioblitz of the flora and fauna on Inyeug (Mystery Island), Vanuatu*
O27. Ajayi, Tolulope (IUPUI) – *Modeling Pancreatic Cancer Tumor Microenvironment Using a Microfluidic Culture System*
O28. Kaur, Amandeep (Northwest) – *The Investigation of Me31B Protein in Germ Cell Formation*

Oral Session G – Room A
1:20pm – 2:20pm

O29. Buss, Adam (Northwest) – *Construction of generalized integral formulas by means of Laplace transforms*
O30. Adebayo, John (Bloomington) – *Neuronal Electrical output and Radiation Bombardment effects on Neuroplasticity*
O31. Floyd, Matthew (Kokomo) – *Reusing and Understanding Software Libraries Using Semantic Techniques and Ontology Formalisms*
O32. Hill, Jacqueline (IUPUI) – *Using Self-Determination Theory to Identify Gamification and Motivational Affordances in Serious Games*
O33. Phaire, David (Southeast) – *Data Mining and Modeling of the Crime Statistics For The City Of Louisville Using Tableau*

Oral Session H – Room B
1:20pm – 2:20pm

O34. Ladapo, Mosopefoluwa (IUPUI) – *The Effect of Music on Body Sway When Standing in a Moving Virtual Environment*
O35. Huber, Timothy (Northwest) – *Supersymmetric Quantum Mechanics and Potentials With the Oscillator Spectrum*
O36. Miranda, Joselito (Northwest) – *Progress toward the total synthesis of Aspernomine*
O37. Magner, Evin (Southeast) – *Investigating the Possible Carnivorous Nature of Seaweed*
O38. Anokwute, Chiamara (Northwest) – *Identification of regulatory sequence for the membrane-bound transcription factor SAUSA300_2640*
**Oral Session I – Auditorium**
2:30pm – 3:30pm

**O39. Pedigo, Emily** (IUPUC) - A Sociological Examination of Suicide in The Bell Jar

**O40. Hepburn, Alexandria** (South Bend) - Attitudes Towards Feminism

**O41. Kaparo, Deanna** (Southeast) - Effects of Feedback on Perceived Performance, Affect, and Perseverance

**O42. Simon, Joseph** (Southeast) - Heroes Coming Home: A Veteran Oral History Project

**O43. Franks, Tamara** (Southeast) - Maintaining goals throughout a lifespan can create self-efficacy, well-being and life satisfaction

**Oral Session J – Room A**
2:30pm – 3:30pm

**O44. Baker, Shane** (Southeast) - Guerrilla Campaigns and Their Influence on the Population at Home and Abroad

**O45. Knoy, Sarah** (Southeast) - The relationship between mothers’ and fathers’ separation anxiety

**O46. Clouse, Cassidy** (IU East) - Motivating Self-Referenced Approach and Avoidance Movements with Emotional Images

**O47. Griffin, Nicole** (Southeast) – Patients’ Satisfaction with Treatment for Symptoms Related to Depression and Anxiety: A Comparison of Provider Types


**Oral Session K – Room B**
2:30pm – 3:30pm

**O49. Layman, Rachel** (Southeast) – Grammar Workshop Implementation

**O50. Moore, Matthew** (Southeast) – Witchcraft in Puritan Salem and its European Origin

**O52. Rodriguez, Joseph** (IUPUI) – Sox2 and Folic Acid Effects in a Zebrafish Fetal Alcohol Spectrum Disorder Model

**O53. Dittmer, Brianna** (Northwest) - The Loss of Innocence in Le Bateau Ivre