CELEBRATION OF RESEARCH, SCHOLARSHIP, AND CREATIVE ACTIVITIES

Friday, April 8, 2011

SCHEDULE OF EVENTS

OFFICE OF UNDERGRADUATE RESEARCH AND STEMM ACTIVITIES

Wright State University

Research, Scholarship, and Creative Activities

3640 Colonel Glenn Highway, Dayton, Ohio 45435-0001
(937) 775-4744

www.wright.edu/urop
Schedule of Events

Conference Check-In and Registration: 7:30 am—11:30 am
Student Union Atrium

Oral Presentation, Morning Session: 9 am—11:20 am
Student Union, E156, E157, E163

Poster Presentations and Lunch: 11:40 am—1:30 pm
Apollo Room, Student Union

Oral Presentations, Afternoon Session: 1:45—3:45pm
Student Union, E156 A
COLA Dean’s Colloquium, E156B
**Session 1: E156A**
Session Chair: Frank Ciarallo

<table>
<thead>
<tr>
<th>Student</th>
<th>Faculty Mentor</th>
<th>Department</th>
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<tbody>
<tr>
<td>Arpan Patel</td>
<td>Dr. Julie Skipper</td>
<td>Biomedical, Industrial and Human Factors Engineering (BIE)</td>
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<tr>
<td><strong>Title:</strong> Bone-Based Biometrics</td>
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<tr>
<td>Gregory Noble</td>
<td>Dr. Frank Ciarallo</td>
<td>BIE</td>
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<td>9:20</td>
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<tr>
<td><strong>Title:</strong> A Two-Echelon Inventory System with Quantity Discounts and Transshipments</td>
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<td>Dishita Patel</td>
<td>Dr. Tarun Goswami</td>
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<td>9:40</td>
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<tr>
<td><strong>Title:</strong> Influence of Design Parameters on Cup-Stem Orientations for Impingement free RoM in Hip Implants</td>
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<td>Daniel Reese</td>
<td>Dr. Tarun Goswami</td>
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<tr>
<td><strong>Title:</strong> Biomechanics of Lumbar Fixation Devices (Pedicle, Facet, Inter-spine)</td>
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<tr>
<td>Keith Saum</td>
<td>Dr. Tarun Goswami</td>
<td>BIE</td>
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<td>10:20</td>
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<tr>
<td><strong>Title:</strong> Mathematical Modeling as a Means of Predicting Cervical Spine Injuries</td>
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<tr>
<td>Yogendra Patil</td>
<td>Dr. Kuldip Rattan</td>
<td>Electrical Engineering</td>
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<td>10:40</td>
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<tr>
<td><strong>Title:</strong> Localization of Autonomous Robotic Systems in indoor locations</td>
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<td>9</td>
<td>Uohna Foster</td>
<td>Dr. Dan Krane</td>
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<td></td>
<td><strong>Title:</strong> Genotyping in Forensic Analysis</td>
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<td>9:20</td>
<td>Jennifer Bauer</td>
<td>Dr. Jeffrey Peters</td>
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<td></td>
<td><strong>Title:</strong> Investigating sources of intron nucleotide diversity</td>
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<td>9:40</td>
<td>Brittany Reinert</td>
<td>Dr. Lynn Hartzler</td>
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<td></td>
<td><strong>Title:</strong> Body Fat Measurement Variance</td>
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<td>10</td>
<td>Kelly Conti</td>
<td>Dr. Paula Bubulya</td>
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<td><strong>Title:</strong> Investigating the association between emerin and Btf</td>
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<tr>
<td>10:20</td>
<td>Abimbola Kolawole</td>
<td>Dr. Kate Excoffon</td>
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<tr>
<td></td>
<td><strong>Title:</strong> Coxsackievirus and adenovirus receptor interacts with the PDZ3 domain of MAGI-1</td>
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<tr>
<td>10:40</td>
<td>Kyle Lewis</td>
<td>Dr. Kate Excoffon</td>
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<td></td>
<td><strong>Title:</strong> Localization of MAGI-1 domains in non-polarized cells</td>
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<tr>
<td>11:00</td>
<td>Poorninma Kotha Laskshmi Narayan</td>
<td>Dr. Kate Excoffon</td>
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<td></td>
<td><strong>Title:</strong> Adeno-associated virus tropism in hematopoietic cells</td>
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### Session 3: E156C
Session Chair: Dr. Ioana Pavel

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<tr>
<th>Time</th>
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<th>Faculty Mentors</th>
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<tbody>
<tr>
<td>9</td>
<td>Joshua Baker</td>
<td>Dr. Ioana Pavel</td>
<td>Chemistry</td>
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<tr>
<td></td>
<td><strong>Title:</strong> Estimating the SERS-based sensing capabilities of colloidal silver nanoparticles: A novel physical chemistry and nanotechnology laboratory experiment</td>
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<td>9:20</td>
<td>Marjorie Markopoulos</td>
<td>Dr. Ioana Pavel</td>
<td>Chemistry</td>
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<tr>
<td></td>
<td><strong>Title:</strong> Defining Criteria for Nanotoxicology</td>
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<td>9:40</td>
<td>Nora Hunter</td>
<td>Dr. Ioana Pavel</td>
<td>Chemistry</td>
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<td></td>
<td><strong>Title:</strong> Cytotoxicological study of Creighton colloidal silver nanoparticles in Vero 76 monkey kidney cells</td>
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<td>10:20</td>
<td>Jessica Dagher</td>
<td>Dr. Ioana Pavel</td>
<td>Chemistry</td>
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<td></td>
<td><strong>Title:</strong> Following the bioaccumulation and toxicity of 1.0 ppm sublethal doses of platinum group metals in developing chick embryo tibiotarsi</td>
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<td>10:40</td>
<td>Adam Stahler</td>
<td>Dr. Ioana Pavel</td>
<td>Chemistry</td>
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<tr>
<td></td>
<td><strong>Title:</strong> Micro-Raman imaging of the bone development in chick embryos exposed to 1.0 ppm sublethal doses of platinum group metals</td>
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<tr>
<td>11:00</td>
<td>Jennifer Hays</td>
<td>Dr. Tom Rooney and Dr. Peters</td>
<td>Biological Sciences</td>
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<tr>
<td></td>
<td><strong>Title:</strong> Avian Community Ecology and the Shifting Baseline in Sugarcreek Metropark</td>
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# Session 4: E163A
Session Chair: Dr. Lynn Hartzler

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<th>Time</th>
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<tbody>
<tr>
<td>9:20</td>
<td>Elizabeth Swartzwelder</td>
<td>Dr. Lisa Kenyon</td>
<td>Biological Sciences</td>
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<tr>
<td></td>
<td><strong>Title:</strong> The Purpose and Variation of Students’ Explanations in Scientific</td>
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<tr>
<td>9:40</td>
<td>Samuel Kantonen</td>
<td>Dr. Julian Gomez-Cambronero</td>
<td>Biochemistry and Molecular Biology</td>
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<tr>
<td></td>
<td><strong>Title:</strong> Elucidation of a Novel Signaling Pathway Involving PLD2 and Grb2 in WASp Mediated Phagocytosis</td>
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<td>9:40</td>
<td>Brittany Stewart</td>
<td>Dr. Heather Hostettler</td>
<td>Biochemistry and Molecular Biology</td>
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<tr>
<td></td>
<td><strong>Title:</strong> Acyl-CoA Binding Protein (ACBP) also Binds Fatty Acids</td>
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<tr>
<td>10:00</td>
<td>Amanda Lutter</td>
<td>Dr. Courtney Sulentic</td>
<td>Pharmacology and Health</td>
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<tr>
<td></td>
<td><strong>Title:</strong> Determining the relationship between Celiac disease and the polymorphic hs1,2 enhancer of the 3'IgH regulatory region</td>
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<td>10:20</td>
<td>Monita Sharma</td>
<td>Dr. Courtney Sulentic and Dr. Hussain</td>
<td>Pharmacology and Toxicology</td>
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<tr>
<td></td>
<td><strong>Title:</strong> Modulation of NF-kappa B pathway by Gold Nanoparticles in vitro cell models</td>
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<td>10:40</td>
<td>Amanda Rowley</td>
<td>Dr. Annette Canfield</td>
<td>College of Nursing and Health</td>
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<tr>
<td></td>
<td><strong>Title:</strong> Reiki in Nursing</td>
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<td>11:00</td>
<td>Elizabeth Peyton</td>
<td>Dr. Debra Steele-Johnson</td>
<td>Psychology</td>
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<td></td>
<td><strong>Title:</strong> An Examination of the Relationship Between Leadership and Inclusive Language</td>
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<tr>
<td>Jaclyn Klaus, Deepthi Nalluri</td>
<td>Dr. Chad Hammerschmidt</td>
<td>Earth and Environmental Science</td>
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<tr>
<td><em>Title:</em> <strong>Atlantic Ocean Cruise 2010: Studying Mercury Biogeochemistry</strong></td>
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<tr>
<th>Katlin Bowman</th>
<th>Dr. Chad Hammerschmidt</th>
<th>Earth and Environmental Science</th>
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<tr>
<td>9:20</td>
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<td><em>Title:</em> <strong>Mercury speciation in the eastern North Atlantic: U.S. GEO-TRACES Zonal Section</strong></td>
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<tr>
<th>Akhilesh Pathak</th>
<th>Dr. K.T. Arasu</th>
<th>Mathematics and Statistics</th>
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<td><em>Title:</em> <strong>Optimization of the Entropy Defined for an Orthogonal Matrix</strong></td>
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<tr>
<th>Ahmed Hassan</th>
<th>Dr. Amir Farajian</th>
<th>Mechanical and Materials Engineering</th>
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<tr>
<td>10:20</td>
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<tr>
<td><em>Title:</em> <strong>Graphene nonoribbons for NO2 sensing</strong></td>
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<tr>
<th>Kirti Kant Paulla</th>
<th>Dr. Amir Farajian</th>
<th>Mechanical and Materials Engineering</th>
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<tr>
<td><em>Title:</em> <strong>Conductance modulation in bilayer graphene nonoribbons</strong></td>
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<tr>
<th>Scott Eastbourn</th>
<th>Dr. Rory Roberts</th>
<th>Mechanical and Materials Engineering</th>
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<td><em>Title:</em> <strong>Aircraft Thermal Modeling</strong></td>
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<td>Kalana Bartmess</td>
<td>Tracy Longley-Cook</td>
<td>Art and Art History</td>
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<tr>
<td>Title: And We Wander Through: A Photographic Exploration of Space and Impermanence</td>
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<td>Kristen Fisher</td>
<td>Erin Flanagan</td>
<td>English</td>
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<td>9:20</td>
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<tr>
<td>Title: Freedom of Revision</td>
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<td>Christopher Witeof</td>
<td>Erin Flanagan</td>
<td>English</td>
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<td>Title: Detective Work: Revision and Writing</td>
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<td>Nicolas Waggy</td>
<td>Sean Pollock</td>
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<td>Title: Guns, Steamers, and Quinine: The lasting effects of European expansion in the 19th century</td>
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<td>Jay Taylor</td>
<td>Dr. Nicole Richter</td>
<td>Motion Pictures</td>
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<tr>
<td>Title: The Importance Of Cinema Theory Within WSU And The World</td>
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<td>Ibrahim Nambiemba</td>
<td>Dr. December Green</td>
<td>Political Science</td>
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<td>Title: Counting Vote and Bodies: Election-Related Violence in Africa and Power-Sharing Governments</td>
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<tr>
<td>Eicka Moore</td>
<td>Dr. Jacqueline Bergdahl</td>
<td>Sociology and Anthropology</td>
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<tr>
<td>Title: Long-Term Psychosocial Outcomes of Bariatric Surgical Weight Loss</td>
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# Session 7: E156A

**Session Chair:**

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<th>Department</th>
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<tbody>
<tr>
<td>1:45</td>
<td>Sue Hueston</td>
<td>Dr. Tarun Goswami</td>
<td>Biomedical, Industrial and Human Factors Engineering (BIE)</td>
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<tr>
<td></td>
<td><em>Title:</em> Statistical Analysis of the Dimensional Anatomy of the Cervical Spine</td>
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<tr>
<td>2:05</td>
<td>Shirishkumar Inga-wale</td>
<td>Dr. Tarun Goswami</td>
<td>BIE</td>
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<td><em>Title:</em> Subject-specific Anatomical and Finite Element Modeling of Mandible</td>
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<td>2:25</td>
<td>Paige King, Brandon Walters</td>
<td>Dr. Tarun Goswami</td>
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<td></td>
<td><em>Title:</em> Morphology of Cervical Spine Vertebral Bodies (C3-C7)</td>
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<td>2:45</td>
<td>Isaac Mabe</td>
<td>Dr. Tarun Goswami</td>
<td>BIE</td>
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<td><em>Title:</em> Finite element analysis of superior C3 cervical vertebra endplate and cancellous core under static loads</td>
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<td>Mbulelo Makola</td>
<td>Dr. Tarun Goswami</td>
<td>BIE</td>
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<td><em>Title:</em> Development of Cervical Spine Model for the Study of Biomechanic Behavior</td>
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<td>3:25</td>
<td>Melissa Jones</td>
<td>Dr. Chandler Philips</td>
<td>BIE</td>
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<td><em>Title:</em> Quantitative Analysis of Haptic Performance using Human Machine Interaction and Multi-Task Performance Model</td>
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# Session 8: E156B

**CoLA Dean’s Colloquium**  
Session Chair: Linda Caron

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<th>Time</th>
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<tr>
<td>1:45</td>
<td>Stephen Rumbaugh</td>
<td>Dr. Erin Flanagan</td>
<td>English</td>
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<td><em>Title: The Society Project</em></td>
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<td>2:05</td>
<td>Alex Elkins</td>
<td>Dr. Laura Luehrmann</td>
<td>Political Science</td>
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<td><em>Title: Installing Shanghai’s Software: Building a Competitive City for the 21st Century</em></td>
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<td>2:25</td>
<td>Steven Saus</td>
<td>Dr. Jacqueline Bergdahl</td>
<td>Sociology and Anthropology</td>
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<td><em>Title: Evaluating the Impact of Anti-Prejudicial</em></td>
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<td>2:45</td>
<td>Jade McDaniel</td>
<td>Dr. Barry Milligan</td>
<td>English</td>
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<td></td>
<td><em>Title: Burning the Mirror: Eavan Boland’s Female Icon</em></td>
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<td>3:05</td>
<td>Laura Kellogg</td>
<td>Dr. Christopher Chaffee</td>
<td>Music</td>
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<tr>
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<td><em>Title: rapid.fire for solo flute by jennifer higdon and Its Place in the Flute Repertoire</em></td>
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### Biochemistry and Molecular Biology

**Shandra Basil**  
**Title:** *p53 Activation of YPEL5 and its Impact on Tumor Cell Growth*  
Undergraduate Student in Biological Sciences  
Mentor: Steven Berberich, Biochemistry and Molecular Biology

**Brittany Stewart**  
**Title:** *Acyl-CoA Binding Protein (ACBP) also Binds Fatty Acids*  
Undergraduate Student in Earth and Environmental Science  
Mentor: Heather Hostetler, Biochemistry and Molecular Biology

### Biological Sciences

**Cortney Campbell**  
**Title:** *Food diary strategies for body fat loss*  
Undergraduate Student in Biological Sciences  
Mentor: Lynn Hartzler, Biological Sciences

**Brittany Damron**  
**Title:** *Abundance and trends of woodpecker populations in the Wright State Biology Preserve*  
Undergraduate Student in Biological Sciences  
Mentor: Tom Rooney, Biological Sciences

**Sydney Wiltshire**  
**Title:** *Novel Coxsackievirus and adenovirus receptor interacting partners*  
Undergraduate Student in Biomedical Engineering  
Mentor: Katherine Excoffon, Biological Sciences

**Laurie Wissler**  
**Title:** *Carbon sequestration in soils of the Wright State University Biology Preserve*  
Undergraduate Student in Biological Sciences  
Mentor: Tom Rooney, Biological Sciences

**Ran Yan**  
**Title:** *Synthesis of the CAR c-terminus and MAGI-1 PDZ domains proteins*  
Graduate Student in Biological Sciences  
Mentor: Katherine Excoffon, Biological Sciences

**Brittany Reinert**  
**Title:** *Body Fat Measurement Variance*  
Undergraduate Student in Biological Sciences  
Participant in: Summer Undergraduate Research, Scholarship and Creative Activities Program  
Mentor: Lynn Hartzler, Biological Sciences
**Logical Sciences**

**Biomedical, Industrial, and Human Factors Engineering**

Kelly Swartzmiller  
Title: *A Simple Mock Circulatory System for Testing Direct Mechanical Ventricular Actuation*  
Undergraduate Student in Biomedical Engineering  
Participant in: Summer Undergraduate Research, Scholarship and Creative Activities Program  
Mentor: David Reynolds, Biomedical, Industrial, and Human Factors Engineering

**Chemistry**

Zachary Arnold  
Title: *Comparative cytotoxicological study of ionic silver and silver nanoparticles using an MTT bioassay*  
Undergraduate Student in Chemistry  
Mentor: Ioana Pavel, Chemistry

Jeffrey Fogle  
Title: *Bis(2-Fluorophenyl) Substituted PPV*  
Graduate Student in Chemistry  
Mentor: William Feld, Chemistry

Huong Hoang  
Title: *Determination of the kinetic parameters of BB”B”” monomers*  
Utilized to prepare hyperbranched poly(arylene ether)  
Undergraduate Student in Chemistry  
Mentor: Eric Fossum, Chemistry

Tai Lam  
Title: *Comparative cytotoxicological study of ionic silver and silver nanoparticles using an MTT bioassay*  
Undergraduate Student in Clinical Laboratory Science  
Mentor: Ioana Pavel, Chemistry

Allie Meyerhoefer  
Title: *Stimulating the analytical and surface enhancement factors in SERS: A novel physical chemistry and nanotechnology laboratory experiment*  
Undergraduate Student in Chemistry  
Mentor: Ioana Pavel, Chemistry

Paul Repasky  
Title: *1H and 13C NMR Determination of the β-Carbon and Proton in α,β-Unsaturated Benzylidene Oxindoles*  
Graduate Student in Chemistry  
Mentor: Daniel M. Ketcha, Chemistry

Ryan Selhorst  
Title: *Acylation of sydnones using metal triflate catalysts*  
Undergraduate Student in Biomedical Engineering
Mentor: Kenneth Turnbull, Chemistry

Michael Smith
Title: Effects if crystal orientation on the dissolution kinetics of calcite surfaces by an atomic emission spectroscopic and interferometric approach
Graduate Student in Chemistry
Mentor: Steve Higgins, Chemistry

Triet Truong
Title: DNA barcoding of sea turtle leeches (Ozobranchus spp.) in Florida coastal waters
Undergraduate Student in Chemistry
Mentor: Audrey E. McGowin, Chemistry

Linda Borns
Title: Improving Communication with Patients with The Daily Plan
Graduate Student in Undecided
Mentor: Sherrill Smith, College of Nursing and Health

Matthew Boyer
Title: Preventing congestive heart failure readmission through education and early symptom mitigation
Graduate Student in Nursing
Mentor: Perla Ilagan, College of Nursing and Health

Beth Campbell
Title: Consideration for Hospice Palliative Care at End of Life: Advancing Physician Referrals
Graduate Student in Nursing
Mentor: Sherrill Smith, College of Nursing and Health

Karey Dufour
Title: Standardized Patient Handoff Checklist and Patient Safety
Graduate Student in Nursing
Mentor: Perla R. Ilagan, College of Nursing and Health

Cassandra Fishbein
Title: Childhood Obesity and Physical Activity
Graduate Student in Nursing
Mentor: Perla R. Ilagan, College of Nursing and Health

College of Nursing and Health

Dana Adrian
Title: Perceptions and Opinions of Registered Nurses Who Separated from the Air Force
Graduate Student in Nursing
Mentor: Perla R. Ilagan, College of Nursing and Health

Joseph Bertke
Title: Clinical Nurse Leader Project Proposal
Graduate Student in Nursing
Mentor: Sherrill Smith, College of Nursing and Health

Linda Borns
Title: Improving Communication with Patients with The Daily Plan
Graduate Student in Undecided
Mentor: Sherrill Smith, College of Nursing and Health

Matthew Boyer
Title: Preventing congestive heart failure readmission through education and early symptom mitigation
Graduate Student in Nursing
Mentor: Perla Ilagan, College of Nursing and Health

Beth Campbell
Title: Consideration for Hospice Palliative Care at End of Life: Advancing Physician Referrals
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Mentor: Sherrill Smith, College of Nursing and Health

Karey Dufour
Title: Standardized Patient Handoff Checklist and Patient Safety
Graduate Student in Nursing
Mentor: Perla R. Ilagan, College of Nursing and Health

Cassandra Fishbein
Title: Childhood Obesity and Physical Activity
Graduate Student in Nursing
Mentor: Perla R. Ilagan, College of Nursing and Health
Cindra Holland  
Title: Implementation and Evaluation of a UHC/AACN Nurse Residency Program™ at a Tertiary Care Center  
Graduate Student in Nursing  
Mentor: Gail Moddeman, College of Nursing and Health

Keri Lawson  
Title: Nurses’ Perceptions of Analgesics and Sedatives in End-of-Life Care  
Graduate Student in Nursing  
Mentor: Perla Ilagan, College of Nursing and Health

Kelly Morgan  
Title: Critical Tubes  
Graduate Student in Nursing  
Mentor: Sherrill Smith, College of Nursing and Health

Chinedu Njoku  
Title: Influence Of Nutrition on sickle cell crisis  
Graduate Student in Nursing  
Mentor: Pearla Ilagan, College of Nursing and Health

Lisa Russell  
Title: The Universal Power of Reiki  
Undergraduate Student in Nursing  
Participant in:  
Mentor: Sherrill Smith, College of Nursing and Health

Pamela Tolmoff  
Title: The Impact of Child Life Interventions on the Anxiety Level of Pediatric Asthma Patients  
Graduate Student in Nursing  
Mentor: Perla R. Ilagan, College of Nursing and Health

Talena Ullery  
Title: Emergency Department Nurses’ Perceptions of Workplace violence  
Graduate Student in Nursing  
Mentor: Perla Ilagan, College of Nursing and Health

Tronica Wheeler  
Title: Development of CAUTI Protocol  
Graduate Student in Nursing  
Mentor: Sherrill Smith, College of Nursing and Health

Computer Science

Michael Cooney  
Title: Real Time Feature Streams  
Undergraduate Student in Computer Science  
Mentor: Amit Sheth, Computer Science

Ashwin Kumar Manjunatha  
Title: Cloud Mobile Hybrid Application  
Graduate Student in Computer Engineering  
Mentor: Amit Sheth, Computer Science
Katlin Bowman
Title: *Decomposition of methylmercury in surface water of the northwest Atlantic Ocean*
Graduate Student in Earth and Environmental Science
Mentor: Chad Hammerschmidt, Earth & Environmental Sciences

Matthew Konkler
Title: *Methylmercury in Mosquitoes: Impact of a Large Coal-Fired Electrical Utility in Central Ohio*
Graduate Student in Earth and Environmental Science
Mentor: Chad Hammerschmidt, Earth & Environmental Sciences

Robbie Weller
Title: *Methylmercury in Plankton on the Continental Margin of the Northwest Atlantic Ocean*
Undergraduate Student in Biological Sciences
Mentor: Chad Hammerschmidt, Earth & Environmental Sciences

Nikolaus Williams
Title: *Survey of Unemployment and Unemployment Insurance in Germany, Sweden, and the United States*
in Economics
Mentor: Dr. Barbara Hopkins, Economics

Edmund Velten
Title: *A.W.S.U.M.M.O.W.*
Undergraduate Student in Electrical Engineering
Mentor: Kuldip Rattan, Electrical Engineering

Megan Woods
Title: *ATP stimulation of volume regulation in cultured human astrocytoma cells.*
Post-Baccalaureate Student Participant in: GRAD-PREP
Mentor: Jim Olson, Emergency Medicine

Cory Knick
Title: *Modeling Exfoliation of Nano Graphene Platelets*
Undergraduate Student in Materials Science and Engineering
Mentor: Amir Farajian, Mechanical and Materials Engineering

Rebecca Bricker
Title: *Cloning of Human Podocin cDNA*
In Neuroscience, Cell Biology and Physiology
Undergraduate Student in Biological Sciences
Participant in: Summer Undergraduate Research, Scholarship and Creative Activities Program
Mentor: Thomas L. Brown, Neuroscience, Cell Biology and Physiology

Lan-Anh Bui
Title: Changes to Kv3.1, Kv3.1b, Kv4.3, SK3, HCN1, HCN2, and HCN4 Ion Channels in Dorsal Root Ganglion Following Peripheral Nervous System Injury
Undergraduate Student in Biological Sciences
Mentor: Robert Fyffe, Neuroscience, Cell Biology and Physiology

Erica Carey
Title: Cloning of Podocyte-Specific hACE2
Undergraduate Student in Biological Sciences
Participant in: Summer Undergraduate Research, Scholarship and Creative Activities Program
Mentor: Thomas L. Brown, Neuroscience, Cell Biology and Physiology

Scott Sieber
Title: An Effective Delayed Treatment for Ischemic Stroke uses Drug Combination of Fluoxetine, Simvastatin and Ascorbic Acid
Graduate Student in Pharmacology and Toxicology

Mentor: Adrian Corbett, Neuroscience, Cell Biology and Physiology

Pathology
Davida' Morrow
Title: Specific peptide/toxin fusion protein for potential individualized therapy in chronic lymphocytic leukemia
Post-Baccalaureate Student
Participant in: GRAD-PREP
Mentor: Osvaldo Lopez, Pathology

Pharmacology and Toxicology
Mahmoud Alghamri
Title: Echocardiography shows impaired cardiac function in ACE2 knockout mice
Graduate Student in Visual Arts Education
Mentor: Mariana Morris, Pharmacology and Toxicology

Sybil Andrieux
Title: Hippocampal Neurogenesis in Ames Dwarf Mice
Post-Baccalaureate Student
Participant in: GRAD-PREP
Mentor: Mariana Morris, Pharmacology and Toxicology

Danielle Barnhart
Title: Increased body fat in angiotensin converting enzyme 2 (ACE2) knockout mice
Undergraduate Student in Biological Sciences
Mentor: Mariana Morris, Pharmacology and Toxicology

Rachel Brame
Title: Suncus murinus and 8-OH-DPAT
Undergraduate Student in Biological Sciences
Participant in: Summer Undergraduate Research, Scholarship and Creative Activities Program
Mentor: James Lucot, Pharmacology and Toxicology

Sharon Ochs
Title: Pax5 may mediate TCDD-induced differences in transcriptional regulation of the mouse and human hs1,2 enhancer
Graduate Student in Pharmacology and Toxicology
Mentor: Courtney Sulentic, Pharmacology and Toxicology

Jayharsh Panchal
Title: Role of the 3'IgHRR in TCDD-induced suppression of the immunoglobulin heavy chain
Graduate Student in Biological Sciences
Mentor: Courtney Sulentic, Pharmacology and Toxicology

Naima Rodwan
Title: Fructose consumption enhances body fat and sympathetic innervation
Graduate Student in Pharmacology and Toxicology

Mentor: Mariana Morris, Pharmacology and Toxicology

Leonette Lee
Title: Low dose sarin on brain monoaminergic activity: comparison of mouse strains
Post-Baccalaureate Student
Participant in: GRAD-PREP
Mentor: James Lucot, Pharmacology and Toxicology

Michael Wourms
Title: Evidence of AhR-dependent suppression of immunoglobulin expression
Graduate Student in Pharmacology and Toxicology
Mentor: Courtney Sulentic, Pharmacology and Toxicology

Political Science
Ashley Kitchen
Title: Rape as a Weapon of War: Military Perpetration
Graduate Student in Political Science
Mentor: December Green, Political Science

Psychology
Heather Booth
Title: L-DOPA REVERSES FETAL BEHAVIORAL DEFICITS IN THE PITX3 MOUSE MODEL OF PARKINSON’S DISEASE
Graduate Student in Psychology
Participant in: GRAD-PREP  
Mentor: Gale A. Kleven, Psychology

Rayne Bozeman  
Title: Examining Ingroup Biases Related to Antigay Prejudice  
Undergraduate Student in Psychology  
Mentor: Martin Gooden, Psychology

Riaun Floyd  
Title: Does continuous activation of the BNST induce the onset of passive phase behavior?  
Post-Baccalaureate Student  
Participant in: GRAD-PREP  
Mentor: Michael Hennessy, Psychology

Priyanka Joshi  
Title: Enriched open field environment facilitates exercise and social interaction in two strains of laboratory guinea pig (Cavia Porcellus)  
Graduate Student in Psychology  
Mentor: Gale A. Kleven, Psychology

Lindsey Keene  
Title: Patterns of Behavioral Development after Low-Dose Prenatal Toxin Exposure  
Graduate Student in Psychology  
Mentor: Gale A. Kleven, Psychology

Cristina Kirkendall  
Title: Examining the Factor Structure of Workplace Aggression: Toward a More Parsimonious Model  
Graduate Student in Psychology  
Mentor: Nathan Bowling, Psychology

Lianna Lhamon  
Title: The Impact of Warnings on Simulated Applicant Personality Scores  
Undergraduate Student in Psychology  
Participant in: Summer Undergraduate Research, Scholarship and Creative Activities Program  
Mentor: Gary Burns, Psychology

Brian Michael  
Title: Personality as a Moderator of the Cooperation-Conflict Relationship  
Graduate Student in Psychology  
Mentor: Debra Steele-Johnson, Psychology

Molly Miklasevich  
Title: The Effects of Choline Supplements on Acquisition and Extinction of the Conditioned Eyeblink Response in Young Rats  
Undergraduate Student in Psychology  
Mentor: Dragana Claflin, Psychology

Emily Polander
Title: Using Persuasion to Promote a More Hospitable STEM Work Climate
Graduate Student in Psychology
Mentor: Tamera Schneider, Psychology

Kevin Schmidt
Title: Effects of Postnatal Choline Supplementation on Open Field Behavior in Developing Rats
Undergraduate Student in Psychology
Mentor: Dragana Claflin, Psychology

Social Work

Megan Fisher
Title: Latina Immigrants and the UDHR
Undergraduate Student in Social Work
Mentor: Sarah Twill, Social Work

Tara Purvis
Title: Weed and Seed: Helping Detained Youth Grow Through Gardening
Undergraduate Student in Social Work
Mentor: Sarah Twill, Social Work