

**37TH ANNUAL
WESTERN KENTUCKY UNIVERSITY
STUDENT RESEARCH CONFERENCE
2007**

**Session 1: Engineering and Robotics
Room 118, 8:45 – 12:00**

- 1st** **CNC Fabric Cutting Device**
John Neal Walton*, Adam Marshall, Joel Lenoir‡
- Honorable Mention** **Determining Standard Stars for Use in Optical Variability Monitoring**
Jeremy D. Maune*, Michael Carini‡
- Honorable Mention** **Washing Machine Transmission Redesign for MTD**
Joshua Anthony Petrino*, Juan Figueroa, Joel Lenoir‡
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**Session 2: Chemistry and Geology
Room 232, 8:30 – 11:00**

- 1st** **Factors Affecting the Rate of Reaction of Platinum Anticancer Drug Models with DNA and Protein Targets**
Becca M. Davis-Sandlin*, Kevin Williams‡
- Honorable Mention** **Toward Creating Nanoscale Patterns for General Protein Sensors**
Winston Maupin*, Stuart Burris‡
- Honorable Mention** **Anionic Exchange Membrane with Surfactant Immobilization for Extraction of Doxepin**
Jason James Weiner*, Shi-Ming Hong, Shing-Yi Suen, Eric Conte‡
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**Session 4: (Graduate) Psychology, Communications,
Public Health, and Religious Studies
Room 344, 8:45 – 12:00**

- 1st** **The Collegiality Climate Scale (CCS): A Psychometric Investigation**
Christopher Charles Brady*, Kathi Miner-Rubino‡
- Honorable Mention** **Dishonorable Treatment: Workplace Incivility and Cultures of Honor**
Matthew Scott Kelley*, Kathi Miner-Rubino‡
- Honorable Mention** **Aging and the Perception of Slant From Patterns of Optical Texture**
Charles E. Crabtree*, J. Farley Norman‡
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**Session 5: Psychology and Education
Room 232, 11:15 – 12:00, 2:30 – 3:15**

- 1st** **Aging and the Revision of Causal Beliefs**
Anthony Ray Atchley*, Sharon Mutter‡
- Honorable Mention** **Perception of Purpose on Course Evaluations and the Effect on Responses**
Andrew Jefferson Caudill*, Steven Wininger‡
- Honorable Mention** **Examination of Future Time Perspective, Self-Determination Theory, and Self-Talk as Correlates of Exercise Behavior**
Thomas Marvin DeSena*, Steven Wininger‡
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**Session 6: Biology
Room 118, 2:30 – 5:30**

- 1st** **Testing the Linear Threshold Shift Hypothesis in Tone-Exposed Goldfish**
Ronald Reagan Gilley**, Michael Smith‡
- Honorable Mention** **Sound Production on Loricariid Catfish**
Amanda Lynn Webb**, Michael Smith‡
- Honorable Mention** **RNA Interference Gene Silencing to Study the Circadian Clock in *Chlamydomonas reinhardtii***
Matthew Clifton Young*, Sigrid Jacobshagen‡
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**Session 7: Religious Studies, Philosophy, and Anthropology
Room 232, 3:30 – 5:45**

- 1st** **Who Do You Say That I Am? Analyzing African Christology**
Kathleen Elisabeth Smallwood*, Bella Mukonyora‡
- Honorable Mention** **A Comparison of Heroes**
Jesse Taylor Alexander IV*, Joseph L. Trafton‡
- Honorable Mention** **Critique of Cultural Influence on Biomedicine**
Brandi Nicole Sullivan*, Ted Hovet‡
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Undergraduate Posters I Biology, Chemistry, Engineering, Geography

- 1st** **Tonotopic Representation in the Goldfish Sacculle**
Brian D. Rogers, Michael Smith
- Honorable Mention** **Constructing Single-Copy Antitermination Reporter Gene
Constructs by Recombineering**
Andrew Joseph Ebelhar, Rodney King
- Honorable Mention** **Quantum Dots Sensitized Nanoscale Solar Cells**
Jordan Norris, Tingying Zeng
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Undergraduate Posters II Psychology, Recreation, Student Engagement

- 1st** **Differences in Attentional Focus Across Gender, Distance, and
Stroke in Collegiate Swimmers**
Laura Marie Graves, Steven Winingier
- Honorable Mention** **Difference in Patterns of Collaborative Inhibition**
Brittany Sears, Marty Bink
- Honorable Mention** **Motor Interference on Memory Tasks**
Nicholas Terry, Marty Bink
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Undergraduate Posters III Art, Graphic Design

- 1st** **WW2 Propaganda Series**
Greg Roy, Matthew Tullis
- Honorable Mention** **In/Dwelling**
Megan J. Kelley, Yvonne Petkus
- Honorable Mention** **Three Famous Designers**
Aaron Hamilton Upton, Matthew Tullis
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Graduate Posters Chemistry, Genetics, Geography, Nursing, Psychology

- 1st** **Synthesis of Cyclopenta[c]thiophenes via Activated Methylene**
Vineet Karambelkar, Chad Snyder
- Honorable Mention** **Statistical Studies of the Human Sex Ratio (HSR)**
Archana Lakkaraju, Elmer Gray
- Honorable Mention** **Aging and the Depth of Binocular Rivalry Suppression**
Kristina Fugitte Pattison, J. Farley Norman
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