UMR Undergraduate Research Conference
Awards Ceremony, April 12, 2006

Oral Session Awards

Engineering Oral Session:

3rd Place- Lisa Smith, Electrical and Computer Engineering- Collective Robotic Search with Obstacle Avoidance Using Swarm Intelligence, Research Advisor Dr. G.K. Venayagamoorthy

2nd Place- Thomas James Woodard, Electrical and Computer Engineering Change Detection for Implanted IED Region of Interest Identification, Research Advisor- Dr. Sanjeev Agarwal

1st Place- Parviz Palangpour, Electrical and Computer Engineering - A Neural Network Based Approach to Elephant Migration Prediction in a South African Game Reserve, Research Advisor Dr. Venayagamoorthy

Humanities/Social Sciences Oral Session:

3rd Place- Nicholas Villanueva Jr., History and Political Science- No laughing Matter: The Usefulness of Editorial Cartoons and Caricatures in the University Classroom, Research Advisor Dr. Diana Ahmad

2nd Place- Mary Peaslee, History and Political Science- The Millerite Movement: A Sign of the Times, Research Advisor Dr. Diana Ahmad

1st Place- Philip Norfolk, Psychology- The effects of task difficulty and distracter congruency on visual attention, Research Advisor Dr. Michael Nelson

Natural Sciences Oral Session:

3rd Place- Christopher Campbell, Department of Chemistry. Development of Portable Biosensor for Quantitative analysis of Tumor –Liberated Proteins in Human Serum, Research Advisor Dr. Yinfa Ma

2nd Place- Lane Martin- Physics - Quantum Dot Photolithograph, Research Advisor Dr. Massimo Bertino

1st Place- Jessica Mueller- Biological Sciences- Skeletal Morphology of Blanchard’s Cricket Frog, Acris crepitans blanchardi, Research Advisor Dr.Anne Maglia.
**Poster Session Awards**

**Engineering Poster Session:**

**3rd Place** - Michelle Swenty, Computer Science- *The FACTS System Security Policy*, Research Advisor Dr. Bruce McMillin

**2nd Place** - Stephanie Fesenmeyer, Leia Ponder and Alicia Canelos, Mining and Nuclear Engineering- *Directly vitrifiable nanosize hydroxyapatite for removal of hazardous substances from aqueous wastes*, Research Advisor Dr. Cheol Woon Kin and Dr. Delbert Day


**Humanities/Social Sciences Poster Session:**

**3rd Place** - James Ney McDonald, History and Political Science- *The friends of Barbados; an analysis of Quakers living on the island of Barbados in the late 17th Century*, Research Advisor- Dr. Larry Gragg

**2nd Place** - Emily Gill, Psychology- *More than just intelligence: the role personality plays in student success*, Research Advisor Dr. James H. Martin

**1st Place** - Natalie Shanklin, Psychology- *Parental rejection as a pathway to depression: Why fathers are important to the understanding of drinking behaviors*, Research Advisors- Dr. Julie Patock -Peckham

**Natural Sciences Poster Session:**

**3rd Place** - Clinton Roberts, Bryce Wagner Geology and Geophysics- *A Comparison of Sieve Analysis Techniques in the St.Peter Sandstone*, Research Advisor Dr. Robert Laudon

**2nd Place** - Agatha Dwilewicz, Biological Sciences and Ceramic Engineering- *The Growth of MC3T3-E1 Pre-Osteoblasts on Borate Containing Glasses*, Research Advisor Dr. R Brown and Dr. M.N. Rahaman

**1st Place** - Cory Cheatham, Biological Sciences- *Comparison of Traditional and Molecular Techniques for Describing Fungi in Streams*, Research Advisor Dev Niyogi

**Management & Information Systems Poster Session:**
1\textsuperscript{st} Place- Young Suk Cho, Economics and Finance \textit{Microfinance and the Impact on Mexico}, Research Advisor- Dr. Julie Gallaway

\textbf{Research Proposals}

3\textsuperscript{rd} Place-
Brandon Adams, and Daniel Gill, Mechanical and Aerospace Engineering- \textit{Improving Molds for Rapid Freeze Prototyping}, Research Advisor Dr. Ming C. Leu

2\textsuperscript{nd} Place-
Lucas McIntosh, Synthesizing a Property- Chemical and Biological Engineering- \textit{Specific Polymer as the Crux of a Pond Liner Repair Method}, Research Advisor- Dr. David Henthorn

1\textsuperscript{st} Place-
Darla Ellis- Biological Sciences and Chemistry- \textit{Effects of Microgravity on Bone Tissue Scaffolds for In Vitro Tissue Growth}, Research Advisor Dr. Roger Brown and Dr. Harvest Collier