



Undergraduate Research Conference at Missouri S&T

Apr 12th, 2006

2nd Annual Undergraduate Research Conference Winners

Missouri University of Science and Technology

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**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

1st Place- Robert Duke Adams, Electrical and Computer Engineering- *Robotic Prosthetic Arm*, Research Advisor Keith Stanek

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:

1st Place- Young Suk Cho, Economics and Finance *Microfinance and the Impact on Mexico*, Research Advisor- Dr. Julie Gallaway

Research Proposals

3rd Place-

Brandon Adams, and Daniel Gill, Mechanical and Aerospace Engineering- *Improving Molds for Rapid Freeze Prototyping*, Research Advisor Dr. Ming C. Leu

2nd Place-

Lucas McIntosh, Synthesizing a Property- Chemical and Biological Engineering- *Specific Polymer as the Crux of a Pond Liner Repair Method*, Research Advisor- Dr. David Henthorn

1st Place-

Darla Ellis- Biological Sciences and Chemistry- *Effects of Microgravity on Bone Tissue Scaffolds for In Vitro Tissue Growth*, Research Advisor Dr. Roger Brown and Dr. Harvest Collier