



Undergraduate Research Conference at Missouri S&T

Apr 8th, 2009 - 5:00 PM

5th Annual Undergraduate Research Conference Winners

Missouri University of Science and Technology

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5th Annual Undergraduate Research Conference Awards Ceremony, April 8, 2009

Congratulations to the following award winners!

Oral Session Awards

Engineering Oral Session:

3rd Place – Yezad Anklesaria and Steven McDonald, Design of the Docking System for the University Satellite Project, Research Advisor- Hank Pernicka, Mechanical & Aerospace Engineering

2nd Place - Brandi Clark, Determination of Mercury in Baby Formula Purchased from U.S. Supermarkets, Research Advisor- Jianmin Wang, Civil, Architectural & Environmental Engineering

1st Place - Justin Aholt, Influence of Laminar Separation Bubbles on the Aerodynamic Characteristics of Elliptical Airfoils at Low Reynolds Numbers, Research Advisor-Fathi Finaish, Mechanical & Aerospace Engineering

Sciences Oral Session:

3rd Place – Katherine Stockstill, Cytokinesis Defects in Budding Yeast, Research Advisor- Katie Shannon, Biological Sciences

2nd Place – Navarre Bartz, Electrodeposition of a Novel Cathode Material for Lithium-ion Batteries, Research Advisor- Jay Switzer, Chemistry

1st Place – Beth Groenke, In Vitro Development of Dental Abrasions, Faculty Advisor- Doug Carroll, Interdisciplinary Engineering

Social Sciences Oral Session:

1st Place – Lindsey Coale, Confirmatory factor analysis on the Perceived Parental Neglect Scale (PPNS), Research Advisor- Julie Patock, Psychology

Arts and Humanities Oral Session:

2nd Place – Adam Smith, Depiction of Aeneas in the Underworld During the Renaissance and Reformation, Research Advisor- Michael Bruening, History & Political Science

1st Place – Amanda Kamps, Relationships? I've Had A Few: A Brief Look at Benjamin Siegel's Reputation in Las Vegas, Research Advisor- Larry Gragg, History & Political Science

Poster Session Awards

Engineering Poster Session:

3rd Place – Brandon Doherty, Dynamic Load Acquisition for Ground Vehicle Handling Analysis, Research Advisor- Hank Pernicka, Mechanical & Aerospace Engineering

2nd Place – Jonathan McKinney, Developing Methods to Measure Concentration Profiles in Solid Materials Using Solid Phase Micro Extraction (SPME), Research Advisor- Glenn Morrison, Civil, Architectural & Environmental Engineering

1st Place – Christopher White, Plasma Properties & Diagnostics, Research Advisor- Joshua Rovey, Mechanical & Aerospace Engineering

Sciences Poster Session:

3rd Place - Casey Growcock and Barbara Wheelden, Nitric Oxide Increases Calcium Oscillations in Response to Muscarinic Receptor Stimulation, Research Advisor- Robert Aronstam, Biological Sciences

2nd Place - Jason Mast and Adam Farquhar, Infinite-randomness critical point in the two-dimensional disordered contact process, Research Advisor-Thomas Vojta, Physics

1st Place – Cassandra Browne, Sandbox Experiments as Analogues for Continental Rifts: Investigation of the Impact of Rock Strength in Extensional Stress Regimes. Research Advisor- John Hogan, Geological Sciences & Engineering

Social Sciences Poster Session:

3rd Place - Charissa Mathis, Jasmine Glaese and Janet Guntly, Computer Science Recruitment for the 21st Century, Research Advisor- Daniel Tauritz, Computer Science

2nd Place – Lindsay Roufa, Importance Scores are Important When Examining Customer Satisfaction, Research Advisor- James Martin, Psychology

1st Place – Melissa Callan, Parental Monitoring and Its Links with Alcohol Use and Alcohol-Related Problems, Research Advisor- Julie Patock, P

Research Proposal Poster Session:

2nd Place – Kelly Walsh, Use of Carvacrol and Thymol as Anti-Bacterials and Anti-Parasitics, Research Advisor- Harvest Collier, Chemistry

1st Place – Angela Hundt, The Dark Side of Leadership Personality, Research Advisor, Research Advisor- James Martin, Psychology

2009-10 OURE Fellows / Award Recipients:

3 projects- 7 students

- **Andrew Adams, Ben Brannon, Cory Brennan and Anna Osborne** – Photo-Dynamic Window System for Optimized Heat Control - Dr. Katie Grantham Lough/Interdisciplinary Engineering, Research Advisor
- **Andrew Heckman** – Dynamic Response Plasma Actuator Control System - Dr. Joshua Rovey/Mechanical & Aerospace Engineering, Research Advisor
- **John Krumme and Thomas McKinnon** – Handheld Pharmaceutical Drug Atlas for US Physicians, Dr. Joe Stanley/Electrical and Computer Engineering, Research Advisor