



Undergraduate Research Conference at Missouri S&T

Apr 9th, 2008

4th Annual Undergraduate Research Conference Winners

Missouri University of Science and Technology

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4th Annual Undergraduate Research Conference Awards Ceremony, April 9, 2008

Congratulations to the following award winners!

Oral Session Awards

Engineering Oral Session:

3rd Place- Joel Harms – Electrical & Computer Engineering – Built-in Transient Current Monitor for Integrated Circuits Testing, Waleed K. Al-Assadi, Research Advisor

2nd Place- Brian Magaha, Paul Drews, Paul Robinette & Nick Lessley– Mechanical & Aerospace Engineering – Development of an Aerial Robot for Surveillance Missions around Buildings, Fathi Finaish, Research Advisor

1st Place- Bryan Glass & Michelle Vaughan - Electrical & Computer Engineering – An Investigation of Automated Transportation, Steve Watkins, Research Advisor

Humanities/Social Sciences Oral Session:

3rd Place- Jennie Carr – Arts, Languages & Philosophy Department – Autonomy and the Consequences of Criminalizing Prostitution, Adam Potthast, Research Advisor

2nd Place- Mallary Kleeschulte – Psychology Department – Relationships with Parental Overprotection and Autonomy and Offspring Self-Esteem, Depression, and Problem Drinking, Julie Patock-Peckham, Research Advisor

1st Place- Amanda Kamps – History & Political Science – The Struggle Within: A Brief Look at George Mivart and his Methods of Combining Science and Spirituality, Jeff Schramm, Research Advisor

Natural Sciences Oral Session:

2nd Place- Jenna Tune – Biological Sciences – Field Analyses for the Detection and Enumeration of Coliform Bacteria in Drinking Water During a Public Health Assessment Study, Curt Elmore, Research Advisor

1st Place- Evan Wright – Mathematics & Statistics Department – Monotone Maps on Dendrites, Wlodzimierz J.Charatonik, Research Advisor

Poster Session Awards

Engineering Poster Session:

3rd Place- Bryan Ralston & Ben McCouch – Biological Sciences Department – Identifying Ribosomal Protein Gene Families in Glycine Max, Ronald Frank, Research Advisor

2nd Place- Jonathan McKinney – Civil, Architectural & Environmental Engineering – Forensic Analysis of Contamination History using Solid Phase Microextraction (SPME), Glen Morrison, Research Advisor

1st Place- Yasmin Hassen – Civil, Architectural & Environmental Engineering – The study of expansive and problematic soils in Missouri using 3D swell test methods, Ronaldo Luna, Research Advisor

Humanities/Social Sciences Poster Session:

3rd Place- Kathryn Knocke – English & Technical Communication – The Problem of English Language Learning and Equal Educational Opportunity - ESL: The Search for a Solution, Dennis Wilson, Research Advisor

2nd Place- Brandi Anderson – History & Political Science – The Music of the Second Great Awakening, Diana Ahmad, Research Advisor

1st Place- Lindsey Coale – Psychology – Gender Specific Relationships between Antisocial Personality, Parental Bonds, and Alcohol Use, Julie Patock , Research Advisor

Natural Sciences Poster Session:

3rd Place- Trevor Bollman – Geological Sciences & Engineering – Possible spatial-temporal variations in seismic activity in SE Asia after the Dec. 26, 2004, 9.0 Magnitude, Sumatra Earthquake, Stephen Gao, Research Advisor

2nd Place- Kevin Walker – Biological Sciences – In Vitro Assessment of Porous Glass Scaffolds for Bone Tissue Engineering, Roger Brown, Research Advisor

1st Place- Michael Hoffman – Physics – Linear and nonlinear study of trapped electron mode turbulence, Ralph Alexander, Research Advisor

Management & Information Systems Poster Session:

2nd Place- Jasmine Glaese, Jessica Williams & Lisa Guntly – Computer Science – Computer Science Recruitment for the 21st Century (CSRecruit21), Daniel Tauritz, Research Advisor

1st Place- Tim Coalson – Computer Science – Identifying Appropriate Games for the Missouri S&T Introduction to Artificial Intelligence Course & Tournament, Dan Tauritz , Research Advisor

2008-09 OURE Fellows / Award Recipients:

1. Imowo Akpan - Rock Mechanical Properties for Drilling Applications from Geophysical and Geological Information - Dr. Runar Nygaard - Geological Sciences & Engineering, Research Advisor
2. Navarre R. Bartz - Characterization of Anodes in the Lithium/Oxygen Cell - Dr. Jay A. Switzer, Chemistry, Research Advisor
3. Stuart Brune Algae for Biodiesel: Investigation of Enhanced Lipid Biosynthesis During Nitrogen Starvation, Dr. Nathan Chen/ Biological Sciences, Research Advisor
4. Brandi Clark-Mercury Concentrations in Baby Foods Purchased from US Supermarkets, Dr. Jianmin Wang/ Civil, Architectural & Environmental Engineering, Research Advisor
5. Brian Catron- Health Impacts of Aviation Emissions. The Development of Lung Deposition Parameters for Aircraft PM., Dr. Phillip Whitefield/Chemistry, Dr. Donald E. Hagen/ Physics, and Dr. Nuran Ercal/Biochemistry and Toxicology, Research Advisors
6. Jordon Crowe- Evaluation of Technical Visuals, Dr. Kathryn Northcut/ English & Technical Communication, Research Advisor
7. Yezad Anklesaria & Steve McDonald - Design of the Docking System for the University Satellite Project - Dr. H. Pernicka/ Mechanical & Aerospace Engineering, Research Advisor
8. Bryan Glass, Chris Krueger, Joe Schaefer & Lisa Battern- Solar Building Benchmark and Smart Building Systems - Dr. Rob Stone and Dr. Katie Grantham Lough/ Interdisciplinary Engineering, and Dr. Stuart Baur/ Civil, Arch & Environ Engineering, Research Advisors.