



Undergraduate Research Conference at Missouri S&T

---

Apr 3rd, 2013 - 5:00 PM

## 9th Annual Undergraduate Research Conference Winners

Missouri University of Science and Technology

Follow this and additional works at: <https://scholarsmine.mst.edu/ugrc>

---

Missouri University of Science and Technology, "9th Annual Undergraduate Research Conference Winners" (2013). *Undergraduate Research Conference at Missouri S&T*. 87.  
<https://scholarsmine.mst.edu/ugrc/2013/full-schedule/87>

This Event is brought to you for free and open access by Scholars' Mine. It has been accepted for inclusion in Undergraduate Research Conference at Missouri S&T by an authorized administrator of Scholars' Mine. This work is protected by U. S. Copyright Law. Unauthorized use including reproduction for redistribution requires the permission of the copyright holder. For more information, please contact [scholarsmine@mst.edu](mailto:scholarsmine@mst.edu).

# 9<sup>th</sup> Annual Undergraduate Research Conference Awards Winners

## Oral Session Awards

### Engineering Oral Session:

**3<sup>rd</sup> Place – Trevor Wilson and Erik O’Riley** – Visual Computer Representation for Seven Axis Manipulator – *Research Advisor, Dr. Frank Liou / Mechanical & Aerospace Engineering*

**2<sup>nd</sup> Place – Derek Schloemann** – Attachment of Peptides to Amino-Polystyrene Microspheres – *Research Advisor, Dr. Daniel Forciniti / Chemical & Biological Engineering*

**1<sup>st</sup> Place – Sam Ruesing** - Analysis of the Second Virial Coefficient of Glycosylated Proteins by Light Scattering - *Research Advisor / Dr. Daniel Forciniti / Chemical & Biological Engineering*

### Sciences Oral Session:

**3<sup>rd</sup> Place – Alex Korff** – Analyzing Critical Drinking Water Parameters in Rural India - *Research Advisor, Dr. Daniel Oerther / Civil, Arch & Environ Engr*

**2<sup>nd</sup> Place – Katie Payne** – “Insulin Neck”: Is this the Earliest Sign of Insulin Resistance?, *Dr. William Van Stoecker / Computer Science*

**1<sup>st</sup> Place – Clayton Buback and Patrick McCarver** – Assembly of Polymeric Nanoparticles in Fibers versus Clusters: Experiment and Simulation - *Research Advisor, Chariklia Sotiriou-Leventis / Chemistry*

### Arts and Humanities Oral Session:

**3<sup>rd</sup> Place – Matthew Eakins** – The Role of Women in Literature: From King Arthur to Margaret Atwood - *Research Advisor, Dr. Olivia Burgess / English & Technical Communication*

**2<sup>nd</sup> Place – Georgina Quiros** – A Brief Historiography of Joseph McCarthy and McCarthyism - *Research Advisor, Dr. Petra Dewitt / History & Political Science*

**1<sup>st</sup> Place – Nelson Shreve** – Mark Twain and Faïza Guène: the Coalescence of Style with Cause - *Research Advisor, Dr. Audra Merfeld-Langston / Arts, Languages & Philosophy*

## Poster Session Awards

### Sciences Poster Session:

**3<sup>rd</sup> Place – Hannah Frye** – Modifying Muscarinic Signaling through Mutation of the Neurotransmitter Receptor M2's G-Protein - *Research Advisor, Dr. Robert Aronstam / Biological Sciences*

**2<sup>nd</sup> Place –Kathryn Czeschin** – Kinetics of GSK3 Phosphorylation of Tau Protein - *Research Advisor, Dr. Daniel Forciniti / Chemical & Biological Engineering*

**1<sup>st</sup> Place – Colin Ryan** – Conversion of Rare Earth Doped Borate Glass to Rare Earth Phosphate Solid Solution Compounds - *Research Advisor, Dr. Richard Brow / Materials Science & Engineering*

### Arts & Humanities Poster Session:

**2<sup>nd</sup> Place – Mary Frey** – From Frontier Town to America's Playground: 50 years of Promotion by the Las Vegas Nevada Chamber of Commerce - *Research Advisor, Dr. Larry Gragg / History*

**1<sup>st</sup> Place – Laura Welsh** – The Promotion of Las Vegas by Local Newspaper Editors (1905-1950) – *Research Advisor, Dr. Larry Gragg / History*

### Research Proposal Poster Session:

**3<sup>rd</sup> Place – Tiffany Edwards** – Early Detection of Cancer Cells Using an Angiogenic Receptor in E. Coli - *Research Advisor, Dr. Westenberg and Dr. Shannon / Biological Sciences*

**2<sup>nd</sup> Place – Levi Malott and Pasha Palangpour** – Investigating Internet Usage Behavior Modeling: A Multifractal Approach - *Research Advisor, Dr. Sriram Chellappan / Computer Science*

**1<sup>st</sup> Place – Anamaria Gaitan** – E.coli Administration of GLP1 in the Presence of Glucose – *Research Advisor, Dr. David Westenberg / Biological Sciences*

### Engineering Poster Session:

**3<sup>rd</sup> Place – Yun Bai** – A study of metal properties repaired by Laser Deposition – *Research Advisor, Dr. Frank Liou / Mechanical & Aerospace Engineering*

**2<sup>nd</sup> Place – Julia Kuebrich** – Methamphetamine Contamination in Household Materials and the Effects of Skin Oil - *Research Advisor, Dr. Glenn Morisson / Civil, Architectural & Environmental Engineering*

**1<sup>st</sup> Place – Zhe Yuan** – Parameter study of polymer-flooding-enhance-oil-recovery with the use of CMG - *Research Advisor, Dr. Mingzhen Wei / Geological Sciences & Engineering*

## Poster Session Awards Continued

### Social Sciences Poster Session:

**3<sup>rd</sup> Place – Jacob Goldsmith** – The Effectiveness of an Online Plagiarism Intervention Module  
– *Research Advisor, Dr. Dr. Amber Henslee / Psychology*

**2<sup>nd</sup> Place – Samantha Kempker** – Evaluating the Acceptability of GAMMA Among Greek-affiliated Students - *Research Advisor, Dr. Amber Henslee / Psychology*

**1<sup>st</sup> Place – Emily Gardner** – Family Interactions and Mood - *Research Advisor, Dr. Don Sharpsteen / Psychology*

### 2013-14 OURE Fellows / Award Recipients:

- **Brittney Abel, Daykin Schnell, Rachel Stancil and Jordan Verslues** – Optimal Number of Factors for Choice Experiments in Mining Community Consultation/Surveying - Dr. Brandi Klein and Dr. Kwame Awuah-Offei/ Psychological Science and Mining Engineering, Research Advisors
- **Dylan Courtney** – Rate Determination of 1,3-Propanediol Production From Glycerol Utilizing Halanaerobium Hydrogenoformans - Dr. Melanie Mormile and Dr. Oliver Sitton/ Biological Sciences and Chemical and Biological Engineering, Research Advisors
- **Matthew Glascock** – Plasmonic Force Propulsion for Small Satellites - Dr. Josh Rovey and Dr. Xiaodong Yang / Mechanical Engineering and Aerospace Engineering, Research Advisors