# STUDENT RESEARCH SHARING SESSION I



Missouri I Room 8:00 p.m. - 10:00 p.m.



#### **BEHAVIOR**

- John Bachman, "Effect of Socioeconomics Status on Purchasing Type," Central High School, St. Joseph, Missouri, Jay Meyers, Sponsoring Teacher
- **Sierra Comer**, "The Effects of the SSRI Metabolite Norfluoxetine on Behavior, Fecundity and Morphology of *Daphnia magna*," Camdenton High School, Camdenton, Missouri, Christopher Reeves, Sponsoring Teacher
- Jay Gulshen, "Predator Olfactory Cue Recognition: Developing a Training Protocol for Recognition of Non-Native Aquatic Predators," Camdenton High School, Camdenton, Missouri, Christopher Reeves, Sponsoring Teacher
- Robert Hutchinson, "Determining Residents and Non-Residents Awareness of Escherichia coli Levels at the Lake of the Ozarks," Camdenton High School, Camdenton, Missouri, Christopher Reeves, Sponsoring Teacher
- **Jonathan Kimbel**, "Refrigerator Browsing: Habitual or Circumstantial?" St. Charles West High School, St. Charles, Missouri, Heather Horstmann and Joan Twillman, Sponsoring Teachers
- Dylan Lyle, "A Study of the Perception of Human Pheromones," Tuscumbia High School, Tuscumbia, Missouri, Constance Wyrick, Sponsoring Teacher
- Paige Wood, "Dying to be Beautiful: Investigating Psychological Motivations for Tanning," Tuscumbia High School, Tuscumbia, Missouri, Constance Wyrick, Sponsoring Teacher

# STUDENT RESEARCH SHARING SESSION II



Clayton Room 8:00 p.m. - 10:00 p.m.



#### **EDUCATION**

- Caitlin Beckmeyer, "The Affects of Speech and Music as Auditory Distractions on Short-Term Memory," Camdenton High School, Camdenton, Missouri, Christopher Reeves, Sponsoring Teacher
- **Devin Ditto**, "The Ability of an Electronic Reader to Kindle Student Interest," Maplewood-Richmond Heights High School, Maplewood, Missouri, Kathleen Dwyer, Sponsoring Teacher
- **Nicholas Huey**, "The Effect of Individual Behavior on Group Situational Perception," Camdenton High School, Camdenton, Missouri, Christopher Reeves, Sponsoring Teacher
- Heather Lovell, "A Comparison of Visual and Haptic Information Processing in Children in Real and Virtual Settings," Tuscumbia High School, Tuscumbia, Missouri, Constance Wyrick, Sponsoring Teacher
- **Abbey Martin**, "The Effects of Music on Learning and Testing Efficiency," School of the Osage, Osage Beach, Missouri, Amanda Wersching, Sponsoring Teacher
- Anna Morgan, "Determining the Effectiveness of the New Missouri Legislation Requiring Kindergarteners to Receive Comprehensive Vision Examinations," Camdenton High School, Camdenton, Missouri, Christopher Reeves, Sponsoring Teacher

# STUDENT RESEARCH SHARING SESSION III



Atrium II Room 8:00 p.m. - 10:00 p.m.



#### **ENVIRONMENTAL SCIENCE**

- **Kyle Ahart**, "A Study of Embankment Erosion," Tuscumbia High School, Tuscumbia, Missouri, Constance Wyrick, Sponsoring Teacher
- Courtney Beckmeyer, "Application of Native Sunflowers (Helianthus occidentalis and Helianthus mollis) for Roadside Heavy Metal Phytoremediation," Camdenton High School, Camdenton, Missouri, Christopher Reeves, Sponsoring Teacher
- Kyle Gulshen, "The Effects of Wireless Internet Router Radiation on Mortality Rates of Darkling Beetles," Camdenton High School, Camdenton, Missouri, Christopher Reeves, Sponsoring Teacher
- Adam Kellerman, "The Effect of Geographic Location on Arabidopsis thalina," Maplewood-Richmond Heights High School, Maplewood, Missouri, Kathleen Dwyer, Sponsoring Teacher
- Cynthia Lam, "Probiotics: Antibacterial Effects of Honey from Different Floral Sources on *Escherichia coli*," Camdenton High School, Camdenton, Missouri, Christopher Reeves, Sponsoring Teacher
- Emily Siebert, "Carbon Sequestration of Plant Power Effluents Streams Using Plant Matrices," Cor Jesu Academy, St. Louis, Missouri, William Joern, Sponsoring Teacher

# STUDENT RESEARCH SHARING SESSION IV



Frontenac Room 8:00 p.m. - 10:00 p.m.



#### **MICROBIOLOGY AND MEDICINE**

- Chelsey Carron, "The Effects of Caffeine on Micrococcus luteus and E. coli Bacteria," West St. Francois County High School, Park Hills, Missouri, Barb Steel, Sponsoring Teacher
- Victoria Cope, "The Effects of Heat on the Growth of *Enterobacter cloacae*," School of the Osage, Osage Beach, Missouri, Amanda Wersching, Sponsoring Teacher
- Victoria Fritchey, "Investigating Statewide Bed Bug Infestation and Various Eradication Methods," Tuscumbia High School, Tuscumbia, Missouri, Constance Wyrick, Sponsoring Teacher
- Alisha Gray, "Effects of Environmental Glycerol on the Hyperosmotic Response of Saccharomyces cerevisiae," Mansfield High School, Mansfield, Missouri, Pam Probert, Sponsoring Teacher
- Kaysha Ousley, "Effects of Environmental Glycerol on the Hyperosmotic Response of Saccharomyces cerevisiae," Mansfield High School, Mansfield, Missouri, Pam Probert, Sponsoring Teacher
- Anna Waldschlager, "A Determination of the Presence of Guard Bacteria in the Parenchyma Cells," Pleasant Hope High School, Pleasant Hope, Missouri, Jim Flora, Sponsoring Teacher

## STUDENT RESEARCH SHARING SESSION V



Atrium I Room 8:00 p.m. - 10:00 p.m.



#### PHYSICAL SCIENCES, ENGINEERING AND MATH

- Adam Brandt, "Characterizing Defects with Magneto Absorption," Timberland High School, Wentzville, Missouri, Terrence Brennan, Sponsoring Teacher
- Andrea Colson, "Troubleshooting an Automatic Titration System," Cor Jesu Academy, St. Louis, Missouri, William Joern, Sponsoring Teacher
- Cameron Falk, "Rocket Propulsion Based on Propellant Mixtures," Pleasant Hope High School, Pleasant Hope, Missouri, Jim Flora, Sponsoring Teacher
- Rachel Hagan, "Bridge Structure," Buffalo High School, Dan McCorkendale, Sponsoring Teacher
- Cameron Nunn, "Splitting Water with Sunlight: Discovering the Optimal Photocatalytic Metal Oxide Combination for the Production of Hydrogen Gas from Water," Seneca High School, Seneca, Missouri, Shannon Sample, Sponsoring Teacher
- Callie Sare, "Comparison of Actual Milk Protein Content to Its Nutritional Labels," Pleasant Hope High School, Pleasant Hope, Missouri, Jim Flora, Sponsoring Teacher

## STUDENT RESEARCH SHARING SESSION VI



Manchester Room 8:00 p.m. - 10:00 p.m.



#### **PHYSIOLOGY**

- Cierra Calloway, "The Effects of Energy Drinks on the Performance of Athletes," School of the Osage, Osage Beach, Missouri, Amanda Wersching, Sponsoring Teacher
- Ann Letterman, "Determining the Effects of Body Mass Index on Pheromone Intensity," Camdenton High School, Camdenton, Missouri, Christopher Reeves, Sponsoring Teacher
- **Scott Morton**, "Calling all Germophobes: Can Your Cell Phone Make You Sick?" Elsberry High School, Elsberry, Missouri, Kenna Heitman, Sponsoring Teacher
- Michele Painter, "The Effect of Salinity on Root Development of Arabidopsis thaliana," Elsberry High School, Elsberry, Missouri, Kenna Heitman, Sponsoring Teacher
- **Eric Sawyer**, "Modeling and Applications of Suppressor tRNAs to the Boolean Satisfiability Problem," Central High School, St. Joseph, Missouri, Jay Meyers, Sponsoring Teacher
- **Della Spratt**, "The Effects of pH Levels on Mutant-Type *Arabidopsis thaliana* Gene bam 1-3," Elsberry High School, Elsberry, Missouri, Kenna Heitman, Sponsoring Teacher