Undergraduate Award Winners- 2017 Student Symposium

I. Science, Technology, Engineering and Mathematics

Oral Presentations:

1st Place: Jennifer Kaczmarek, “Direct production of human engineered cardiac tissues by pluripotent stem cell encapsulation in gelatin methacryloyl” (Chemical Engineering)

2nd Place: James Smith, “Multi-Bend Antenna Optimization by Genetic Algorithms” (Electrical Engineering)

3rd Place: Jiyeong Choi, “Patterns of Ni concentration among populations of the high-Ni insect Melanotrichus boydi (Hemiptera: Miridae), a specialist on the Ni hyperaccumulator plant Streptanthus polygaloides (Brassicaceae)” (Biological Sciences)

Poster Presentations:

1st Place: David Hall, “Controlling size and surface properties of PLGA nanoparticles for vaccine delivery system” (Chemical Engineering)

1st Place: Ethan Hofer, “Controlling the ion distribution in electroactive polymers for more dynamic actuation response” (Materials Engineering)

2nd Place: Marlee Morgan, “In vivo effects of deepwater horizon crude oil and corexit dispersant on rodent hematological markers” (Microbiology)

2nd Place: Trevor Cofer, “Fresh market tomato yield and quality as affected by potassium rates and sources” (Crop, Soil, and Environmental Sciences)

3rd Place: Philip Wang, “Role of carotenoids as antioxidants in Tigriopus californicus” (Biological Sciences)

II. Social Science and Creative Scholarship in Design, Arts and Humanities

Oral Presentations:

1st Place: Kelsie Shipley, “The unpublished Roman à Clef: private fiction and public figures at the turn of the 19th century in The Navy Officer” (English)

2nd Place: Hannah Skjellum, “Reviving the mother of the blues: a continuation of the reconsideration of Ma Rainey as an important black queer figure” (English)

3rd Place: Katie Brown, “Researching food insecurity at Auburn University” (Global Education)

Poster Presentations:

1st Place: Crystal Harrell, “Reconstructing post-emancipation communities through the preservation of African American cemeteries” (Sociology, HDFS)

2nd Place: Peyton Camp, “Understanding engagement and motivation in learning a complex motor skill” (Kinesiology)

3rd Place: Natalie Stephens, “Teaching spatial visualization in chemistry” (Curriculum and Teaching)
Graduate Award Winners- 2017 Student Symposium

I. Science, Technology, Engineering and Mathematics

Oral Presentations:

1st Place: Rakish Shrestha, “Fatigue modeling of a thermoplastic polymer under mean strain and variable amplitude block loadings” (Mechanical Engineering)

2nd Place: Zhongtian Zhang, “In situ esterification and extractive fermentation for butyl butyrate production with Clostridium tyrobutyricum” (Biosystems Engineering)

3rd Place (tied):
> Ferdous Finklea, “Manufacturing functional engineered cardiac tissue spheroids using a custom microfluidic system” (Chemical Engineering)
> Andre Hansford, “The effects of pH on aqueous cellulose nanocrystal dispersions’ rheology and phase behavior” (Chemical Engineering)

Poster Presentations:

1st Place: Morgan Ellis, “Encapsulation of patient-derived pluripotent stem cells to study congenital heart disease” (Chemical Engineering)

2nd Place: Ricky Whitener, “Development and characterization of DNA aptamers targeting Small Cell Lung Cancer cells” (Chemical Engineering)

3rd Place: Ford Dyke, “Effects of ‘green’ stimuli neurocognitive function: An ERP study” (Kinesiology)

II. Social Science and Creative Scholarship in Design, Arts and Humanities

Oral Presentations:

1st Place: Ian Cero, “Suicidal behavior as a network of causally connected symptoms: A new strategy for prevention” (Psychology)

2nd Place: Dawn Michaelson and Sarah Gascon, “Interdisciplinary research: Improving compression garments for women athletes” (Creative Scholarship)

3rd Place: Julio Yanes, “Dissociable meta-analytic networks contribute to post-traumatic stress disorder (PTSD)” (Psychology)

Poster Presentations:

1st Place (tied):
> Steven Boomhower, “Adolescent methylmercury and d-amphetamine exposure alter sensitivity to monoamine uptake inhibitors in adulthood” (Psychology)
> Paige Hartman “The relationship between decision making behavior and the work-life interface” (Psychology)

3rd Place: Justin Owensby, “Leveraging behavioral economics-based interventions to improve medication adherence” (Health Outcomes)