

**OCSE FUSE Awards Spring 2019**

<b>Student</b>	<b>Faculty Mentor</b>	<b>Department</b>	<b>Title</b>
Tithe Ahmed	Michael Stokes	Biology	Use of UAV-based multispectral imagery to locate invasive species and characterize habitat
Christian Alcantar	Rui Zhang	Chemistry	Probing catalytic and biomimetic oxidation of organic sulfides by manganese corroles
Kyle Choat	Fatemeh Orooji	SEAS (Architecture and Manufacturing Sciences)	Kentucky Resilient House: Integrating Resilience into Architectural Design
Hannah Congleton	John Houryieh	SEAS (Architecture and Manufacturing Sciences)	Effect of pH and Kappa (k)-Carrageenan on the Oxidative Stability of Cod Liver Oil-inwater Emulsions
Sarah Elder	Jenni Teeters	Psychological Sciences	Intervention Treatment Effectiveness for Anxious Self-medicating Marijuana Users
Ty Foster	Nilesh Sharma	Biology	Phytoremediation Potential of Lespedeza species
Clarissa Gearner	Simran Banga	Biology	Potential Use of Essential Oils as Alternative Treatment for Dermatophyte Infections
Anas Gondal	Ajay Srivastava	Biology	A Genetic Screen for Proteins Involved in ASP Invasion
Isaac Howard	Yongming Deng	Chemistry	Development of Efficient Synthesis Methods for Chiral Bis(Imino)Pyridine Ligands
Mequeil Howard	Diane Lickenbrock	Psychological Sciences	Come on, Baby, Do the Locomotion: Infant Temperament and Cardiac Physiology as Predictors of Locomotion
Alexandra Johnston	Michael Smith	Biology	Investigating the effect of monofunctional platinum-based compounds on auditory ear organ hair cell apoptosis
Natalie Kincheloe	Leslie North	Geography and Geology	Promoting climate change science communication through glacier tourism
Seth Klaine	Rui Zhang	Chemistry	Generation and kinetic studies of porphyrin-manganese(IV)-oxo intermediates
Eliza Laves	Amy Brausch	Psychological Sciences	Similarities and differences in eating disorders and non-suicidal self-injury
Elaine Loosekamp	Martin Stone	Agriculture	Food Waste to Black Gold: WKU's Food Digester Saves Money & Makes Compost

Lawrence Madriaga	Ivan Novikov	Physics and Astronomy	Prediction of Metal Sample Failure from Scanning Electron Microscope Images Using Convolutional Neural Network
Lea Mitchell	Jason Polk	Geography and Geology	Developing Maximum Contaminant Levels for Metals to Protect Karst Groundwater Quality
Emma Moore	Ahmet Ozkan Ozer	Mathematics	A numerical investigation for the vibration control of piezoelectric devices
Jessica Schlabach	Blairanne Williams	Chemistry	Effects of Non-leaving Ligands in the Toxicity and Intracellular Accumulation of Two Platinum Compounds in Mammalian Cells
Tristan Szymanski	Eric Rappin	Geography and Geology	Developing Climate Statistics to Understand Climate Variability and Climate Extremes in Kentucky
Meredith Whitfield	Amy Brausch	Psychological Sciences	How cancer in immediate family members affects self-harm behaviors in emerging adults
Amelia Winrich	Steve Huskey	Biology	Realized Pressure on the Dentition of Stone Crab Claws
Jacob Young	Kevin Williams	Chemistry	Synthesis of a Water-Soluble Platinum (II) 1,10-Phenathroline (phen) Complex