Ogden College of Science & Engineering FUSE Awards Spring 2016

Student	Faculty Mentor	Department	Title
Bryce Aberg	Farhad Ashrafzadeh	SEAS (Electrical Engineering)	Development of a Low Cost Portable Electronics Lab- Anytime, Anywhere
Bryce Aberg	Sanju Gupta	Physics and Astronomy	Design and Development of Rechargeable Metal-ion Air Batteries as Efficient Energy Devices
Fahad Alanazi	Muhammad Jahan	SEAS (Construction Management)	Experimental investigation into the micromachining of difficult-to-cut glass materials
Afolasayo Aromiwura	Ajay Srivastava	Biology	A Secondary Screen for Basement Membrane degraders in Drosophila
Lauren Bailes	Diane Lickenbrock	Psychological Sciences	Parental Sensitivity Predicted by Parent Personality and Infant Temperament
Chelsea Ballard	Jason Polk	Geography and Geology	Characterizing carbon transport and storage in a complex karst groundwater reversal system at Mammoth Cave, Kentucky
John Bertram	Matthew Nee	Chemistry	Evolving Electrical Conductivity in Polydimethylsiloxane for Thermoelectric Materials
Amber Bishop	Noah Ashley	Biology	The Link between Circadian Rhythms and the Immune System of captive Zebra Finches
Trevor Brown	Jeffrey Galloway	SEAS (Computer Science)	Creating a Web-Based Interface for Managing and Utilizing Virtual Computing Architecture
Brody Bruns	Jeffrey Galloway	SEAS (Computer Science)	Internet of Things in the Classroom
Aaron Brzowski	Bruce Kessler	Mathematics	Domain Decomposition Methods for Wireless Networks
Joshua Castlen	Chandrakanth Emani	Biology	A lab-based study documenting curcumin and black pepper extract as potential cure for polycystic kidney disease
Jayson DeGraves	Farhad Ashrafzadeh	SEAS (Electrical Engineering)	Virtual Air Flor Sensing in Clothes Dryers- A No Cost Approach to a Real Problem.
Brittany Dixon	Chandrakanth Emani	Biology	Sorghum and Rice Tissue Cultures as phytopharmaceutical (plant based) treatment options for Cancer
Catherine Dowell/ Stevie Hoyng	Farley Norman	Psychological Sciences	Haptic and visual perception of 3-D object shape

Davis Elliott	Philip Lienesch	Biology	Stream health assessment based on direct fish and invertebrate sampling versus water quality data collected by a citizen science group
Katherine Everson	Aaron Wichman	Psychological Sciences	Minds changed are Lives Saved: Laying the Groundwork for Attitude Change Interventions to Combat Extremism
Linyue Fan	Ajay Srivastava	Biology	Characterizing the function of the pebble gene in *Drosophila* metamorphosis
Paula Floyd	Amy Brausch	Psychological Sciences	The role of college involvement and belongingness in explicit and implicit suicide ideation in college students
Christopher Goulet	Jeffrey Galloway	SEAS (Computer Science)	Cloud Platform for Education
Steven Green	Dominique Gumirakiza	Agriculture	Explaining Preferences, Perceptions, and Willingness to Pay for Differentiated Beef Products among Millennial Consumers
Denis Hodzic	Michael Smith	Biology	Investigating the Synergistic Effects of Cisplatin and Two Curcuminoid Compounds on Cancer
Jacob Hubbuch	Rajalingam Dakshinamurthy	Chemistry	Novel Self-Patented Hydroxylchalcone Gold Nanoparticles for Antineoplastic Activity
Nicholas Johnson	Chandrakanth Emani	Biology	Sassafras tissue culture extracts as plant based treatment options for cancer
Janice LeMaster	Albert Meier	Biology	The Effect of Rainfall on Spring-flowering Herbs of Eastern Forests
Hana Neziirovic/ Quintin Lyttle	Amber Schroeder	Psychological Sciences	The Effects of Negative Salience on Employers' Ratings of Applicant Facebook Profiles
Jonathan Malone	Rui Zhang	Chemistry	Sunlight driven biomimetic oxidations by manganese porphyrin catalysts
Logan Mitchell	Rezaul Mahmood	Geography and Geology	An Analysis of Urban Heat Islands in Kentucky
Harsh Moolani	Rajalingam Dakshinamurthy	Chemistry	Ceftriaxone capped gold nanoparticles against multi drug resistant bacteria
Bethany Oaks	Chandrakanth Emani	Biology	Tobacco as a plant-based pharmaceutical for cancer treatment
Cory Owens	John Khouryieh	SEAS (Architecture and Manufacturing Sciences)	Effect of pH on the physical and oxidative stability of xanthan-locust bean hum stabilized fish oil-in-water emulsions
Sanida Palavra	Michael Smith	Biology	Mechanoreceptors in Chameleons (*Chamaeleo senegalensis*) for Seismic Communication
Abigail Ponder	Leslie North	Geography and Geology	Preserving Identity through Tourism: An Exploration of Cultural & Natural Identity in Cuba and Mammoth Cave National Park

Thomas Poole	Thomas Kingery	Agriculture	Use of STEM Teaching Methods in Kentucky Secondary Schools
Lydia Ramsey	Shahnaz Aly	SEAS (Architecture and Manufacturing Sciences)	Designing to Last
Davis Ranburger	Rui Zhang	Chemistry	Photosynthesis and Kinetic Studies of Porphyrin-Iron (IV)-Oxo Radical Cations
Millicent Ronkainen	Rodney King	Biology	Characterizing Transcription Antitermination in Bacteriophage VT2phi_272, an *E. coli* Phage Associated with Bacterial Pathogenicity
Wesley Russelburg	Robert Choate	SEAS (Mechanical Engineering)	The Effect of Wind On Blower Door Testing
Kamryn Smith	Moon-Soo Kim	Chemistry	Engineering of DNA-binding proteins for identification of Genetically Modified Organisms
Paula Stepp	Rajalingam Dakshinamurthy	Chemistry	Biofriendly Synthesis of Meropenem Conjugated Gold Nanoparticles and Evaluation of their Antibacterial Activity
Levi Travis	Andy Mienaltowski	Psychological Sciences	Inoculation of Emotional Reaction to Market Volatility When Investing
Jessica Vincent	Jarrett Johnson	Biology	Genetic Analysis of a California Newt *(Taricha torosa)* metapopulation
Riley Walch	Morteza Nurcheshmeh	SEAS (Mechanical Engineering)	Exploring High-Speed Deformation Processes
