

## 2018 Successful Monash-Penn State Collaborations

Count	Title of project/program	Monash CI	Monash Faculty	Penn State CI	Penn State College
1	N/A	Flynn, Asher	Arts	Whitney, Sarah	Commonwealth Campuses - Erie
2	Healthy Parks, Healthy People? Assessing relevance and impact of parks on human health, well-being and environmental sustainability	Peel, Vicki	Arts	Taff, Derrick	Health and Human Development
3	Integrating gender and peace science perspective and methodologies: A graduate curricular initiative	True, Jacqui	Arts	Banaszak, Lee Ann	Liberal Arts
4	Sonifying Climate Change in Australia	Holmes, David	Arts	Ballora, Mark	Arts
5	Computations Guided Exploration of Genetic Modifications for the Overproduction of Ricinoleic Acid in Yeast	Haritos, Victoria	Engineering	Maranas, Costas	Engineering
6	Early detection of damage accumulation in 3D printed components	Chiu, Wing Kong	Engineering	Lissenden, Clifford	Engineering
7	Ultra-high activity heterogeneous catalysts for CO2 utilization	Chaffee, Alan	Engineering	Van Duin, Adri	Engineering
8	Identifying water quality issues using distributed sensor arrays and targeted chemical analyses	McCarthy, David	Engineering	Kahl, Alandra	Engineering
9	Water Cycle Variation Across Heterogenous Landscapes: Quantifying Causes and Consequaneces	Parlange, Marc	Engineering	Boyer, Elizabeth	Science
10	Developing next generation solutions to mitigate the grand challenge of nonpoint source pollution	Lintern, Anna	Engineering	Duncan, Jonathan	Science
11	Design of novel materials and material heterostructures for emerging low power electronic and magnetic devices	Karel, Julie	Engineering	Engel-Herbert, Roman	Engineering
12	Synergistic approach to milk powders innovation	Selomulya, Cordelia	Engineering	Harte, Frederico	Science
13	Inter- and intracellular mechanisms in cell adhesion to 2.5-dimensional materials	Frith, Jess	Engineering	Brown, Justin	Engineering
14	Thrombosis Modelling within Cardiovascular Devices	Steinseifer, Ulrich	Engineering	Mannging, Keefe	Engineering
15	An inside look at fluid inserts- X-ray measurments of novel noise-reduction strategies for supersonic jets	Edgington-Mitchel, Daniel	Engineering	McLaughlin, Dennis	Engineering
16	The virtual forest: Immersive education on ecosystem management	Jenny, Bernie	Information Technology	Klippel, Alexander	Earth and Mineral Sciences
17	Signaling and Production of Red Blood Cells in Response to Stress	Perkins, Andrew C.	Medicine, Nursing, and Health Sciences	Paulson, Robert F.	Agricultural Sciences
18	A Joint Advanced Cyber Community and Infrastructure	Bonnington, Paul	Monash eResearch Centre	Evans, Jenni	Institute for CyberScience
19	International Institute for Biosensing	Voelcker, Nicolas	Pharmacy	Priya, Shashank	Engineering
20	The Role of Genetic Variation in the Susceptibility of the Mosquito, Aedes aegypti to Dengue Virus Across a Range of Daily Temperature Regimes	Sgro, Carla	Science	McGraw, Elizabeth	Agricultural Sciences
21	Toxicants in the Wilderness: Ecological Impacts of Emerging Environmental Contaminants	Wong, Bob	Science	Tooker, John	Agricultural Sciences
22	Higher Interaction in future solar cells and lighting	Frazer, Laszlo	Science	Knappenberger, Kenneth	Science
23	Energy flow and amplification in strongly coupled plasmonic systems	Funston, Allison	Science	Knappenberger, Kenneth	Science

Note: each project has matching funds from relevant MU and Penn State faculty/college; and matching funds from Penn State Global programs