

TEMPLE UNIVERSITY
FACULTY WITH FUNDED SUSTAINABILITY RESEARCH DURING FISCAL YEAR 2014
 Prepared by Office of Sustainability

School	School/Department	Investigator Name	Sponsor	Project Title
Art (Tyler)	Architecture	Harrison, Sally	The Village of Arts and Humanities	Digging Deeper
	Tyler	Biemiller, Sarah	Samuel S Fels Fund	The Mantua Preservation Plan
Business (Fox)	MIS	Yoo, Youngjin	Economic Development Administration	Building a Sustainable Ecosystem for Urban Economic Development: Urban & Maps Studio
Engineering	Civil Engineering	Suri, Rominder	National Science Foundation	AIR: Water and Technology Innovation Ecosystem
	Civil Engineering	Suri, Rominder	National Science Foundation	I-Corps: Novel Absorbents for Water Treatment
	Civil Engineering	Suri, Rominder	Philadelphia Water Department	Tracers of Human Wastewater for the PWD
	Civil Engineering	Suri, Rominder	Various	Water and Environmental Technology Center
	Civil Engineering	Suri, Rominder	National Science Foundation	Removal of 1, 4-Dioxane and VOC's from Groundwater of Naval Air Station Whidbey Island (NASWI) Site using Active Persulfate and Ultrasound and Removal of Iron from NASWI Site groundwater
	Civil Engineering	Suri, Rominder	Pennsylvania State University	Minibus 2013-2014 Research Initiative
	Civil Engineering	Suri, Rominder	Environmental Protection Agency	WET Center - Temple University Pollution Prevention: Child Care Facilities
	Civil Engineering	Van Aken, Benoit	West Virginia University	Assessing the Vulnerability of Sensitive Karst Habitats Containing RTE Species in Chesapeake and Ohio Canal National Historical Park
	Civil Engineering	Van Aken, Benoit	University of Iowa	Semi-volatile PCB's: Sources, Exposures, Toxicities
	Civil Engineering	Van Aken, Benoit	US Department Of Agriculture	Growing Energy Crops on Contaminated Land for the Combined Benefits of Phytoremediation and Sustainable Energy
	Civil Engineering	Van Aken, Benoit	Pennsylvania State University	Development of a Real-time PCR Method for the Early Detection of Aquatic Invasive Species in PA Watersheds
	Civil Engineering	Zhang, Huichun Judy	National Science Foundation	BRIDGE: Redox Noninnocent Ligands - Application in the Reductive Transformation of Hydrazone Contaminants
	Civil Engineering	Zhang, Huichun Judy	Pennsylvania State University	Water Resources Research Institute Annual Base Program FY 2011/2012

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Engineering	Civil Engineering	Zhang, Huichun Judy	National Science Foundation	Impact of Interactions between Metal Oxides to Redox Reactivity of Manganese and Iron Oxides
	Civil Engineering	Zhang, Huichun Judy	Pennsylvania State University	Minibus 2013-2014 Research Initiative
	Electrical Engineering	Bai, Li	Office of Naval Research	Wireless Distributed Operating System Resources Allocation Problems Using a Multi-Agent Computation Approach
	Electrical Engineering	Biswas, Saroj	National Science Foundation	A Realistic Intelligent Multimedia Virtual Laboratory for Power Application
	Mechanical Engineering	Kiani, Mohammed	Infinia Corporation	Base-load Thermal Storage System
	Mechanical Engineering	Neretina ,Svetlana	National Science Foundation	CAREER: II-VI Semiconductor Vapor Phase Epitaxy guided by Kinetically Active Surface Agents
	Mechanical Engineering	Vainchtein, Dmitri	Benjamin Franklin Tech Partners	Scaling up of Non-Equilibrium Gliding Arc Plasma Discharges to industrial Level Required for H2 Production from Biomass, Coal, Organic Wastes, Desulfurization of Oil and CO2 Sequestration
	Mechanical Engineering	Vainchtein, Dmitri	National Science Foundation	Mixing by Resonances in Multi-Scale Systems
Environmental Design	Ctr. For Sustainable Communities	Featherstone, Jeffrey	Environmental Protection Agency	An Integrated Strategy to Improve Green Infrastructure Approaches in Philadelphia
	Ctr. For Sustainable Communities	Featherstone, Jeffrey	US Army Corp of Engineers	Rose Valley Creek Flood Hazard Analysis
	Ctr. For Sustainable Communities	Featherstone, Jeffrey	William Penn Foundation	A Strategy to improve Stormwater Management
	Ctr. For Sustainable Communities	Featherstone, Jeffrey	Montgomery County	Tannery Run and Honey Run Stormwater Improvement Project
	Ctr. For Sustainable Communities	Featherstone, Jeffrey	Philadelphia Water Department	Act 167 Plan for Wissahickon
	Ctr. For Sustainable Communities	Featherstone, Jeffrey	William Penn Foundation	Target Sub-Watershed Cluster Implementation
	Ctr. For Sustainable Communities	Flamm, Bradley J.	San Jose State University Research Foundation	Transit User's Perceptions of Bike-Friendly Policy Impacts on Accessibility to Transit Services
	Ctr. For Sustainable Communities	Flamm, Bradley J.	Pennsylvania Department of Transportation	TDM (Travel Demand Management) Best Practices for Southeast Pennsylvania's US 422 Corridor
	Ctr. For Sustainable Communities	Meenar, Mahbubur	Environmental Protection Agency	Ambler-Area Watershed

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Environmental Design	Landscape Architecture & Horticulture	Eisenman, Sasha	Villanova University	Volume Reduction GI Stormwater Control Measures
	Landscape Architecture & Horticulture	Olszewski, Michael	Herb Society of America	Growth of Herbs on a Green Roof; Effect of Media Components on Physical Characteristics, Moisture Retention and Nutrient Uptake and Growth of Basil, Rosemary, Oregano, Mint and Sage
Liberal Arts	Geography & Urban Studies	Masucci, Michele	Knight Foundation	Urban Apps and Maps Studio
	Geography & Urban Studies	Masucci, Michele	Philadelphia Youth Network, Inc.	Work Ready Summer Program
	Geography & Urban Studies	Masucci, Michele	Philadelphia Youth Network, Inc.	Philadelphia Service Learning Model
	Geography & Urban Studies	Masucci, Michele	Philadelphia Youth Network, Inc.	ITSRG PYN 2013 Work Ready Summer Program- Internship Model
	Geography & Urban Studies	Rosan, Christina	Swarthmore College	Performance And Effectiveness Of Urban Green Infrastructure: Maximizing Benefits At The Subwatershed Scale Through Measurement, Modeling, And Community-Based Implementation
Medicine	CORE	Foster, Gary	The Food Trust	Data Analysis of Corner Stores
	CORE	Foster, Gary	Robert Wood Johnson Foundation	Eval Marketing Strategies to Increase the Purchase of Healthy Foods in Low-Income Communities
Science & Technology	Biology	Cordes, Erik	TDI-Brooks International	Exploration and Research of Northern Gulf of Mexico Deepwater Natural and Artificial Hard Bottom Habitats with Emphasis on Coral Communities: Reefs, Rigs, and Wrecks.
	Biology	Cordes, Erik	National Science Foundation	Ocean Acidification: Physiological and genetic responses of the deep-water coral, <i>Lophelia pertusa</i> , to ongoing ocean acidification
	Biology	Cordes, Erik	University of Mississippi	Ecosystem Impacts of Oil and Gas Inputs to the Gulf
	Biology	Sewall, Brent	Pennsylvania Game Commission	White-Nose Syndrome and Pennsylvania's Bat Populations: Statewide Statistical Analysis to Understand Disease Impacts and Inform Management of Hibernating Bat Species
	Chemistry	Matsika, Spiridoula	US Department Of Energy	Combining High Level Ab Initio Calculations with Laser Control of Molecular Dynamics
	Chemistry	Strongin, Daniel	US Department Of Energy	Complexities Affecting the Rate and Mechanism of Pyrite Oxidation: An Interdisciplinary Approach

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Science & Technology	Chemistry	Strongin, Daniel	National Science Foundation	CRC: Structure-Sorption Relation/Iron Oxyhydroxide
	Chemistry	Strongin, Daniel	Newmount USA Limited	Gold Extraction Using Cyanide Process Treated Through Lipid Technology
	Chemistry	Strongin, Daniel	Montana State University	Astrobiology Biogeocatalysis Research Center
	Chemistry	Wunder, Stephanie	National Science Foundation	Self-Assembled Multi-Ionic Lithium Salts for Solid
	Chemistry	Rao, Yi	Honda Research Institute USA Inc.	Studies of Carrier Generation for High Efficient Photovoltaic Applications
	Computer Information Sciences	Lin, Shan	National Science Foundation	Non-Isotropic Networked Sensor Deployment for Smart Buildings
	Computer Information Sciences	Vucetic, Slobodan	National Science Foundation	A Discriminative Modeling Framework for Mining of Spatio-temporal Data
	Computer Information Sciences	Wu, Jie	National Science Foundation	Eager: A Meso-Scale GENI WiMAX Project
	Computer Information Sciences	Wu, Jie	National Science Foundation	TF - SING: Energy Efficient Design in Wireless Networks Using Cooperative Communication
	Earth and Environmental Science	Davatzes, Alexandra	National Science Foundation	CAREER: Field Studies of Precambrian Impacts and Implications for the Early Crust and Environment
	Earth and Environmental Science	Davatzes, Nicholas	United States Geological Survey	USGS-Temple University Co-operative Research on Geothermal Systems
	Earth and Environmental Science	Davatzes, Nicholas	Ormat Nevada Inc.	Brady's Geothermal Field EGS Project Geomechanical Analysis
	Earth and Environmental Science	Davatzes, Nicholas	US Department Of Energy	Monitoring EGS Stimulation and Reservoir Dynamics with InSAR and MEQ
	Earth and Environmental Science	Davatzes, Nicholas	Texas A&M University	An Integrated Geological and Geomechanical Characterization for the Analysis of MEQ in EGS Experiments (Geysers)
	Earth and Environmental Science	Davatzes, Nicholas	Ormat Nevada Inc.	Integrated Temple University/USGS Component of Desert Peak, Nevada EGS Program
	Earth and Environmental Science	Nyquist, Jonathan	Pennsylvania State University	Geophysical Prediction of Water Migration Along the Soil-Bedrock Interface at the Shale Hills Critical Zone Observatory
	Earth and Environmental Science	Terry, Dennis O.	National Park Service	Protect Fossil Resources Through the Use of Rare Earth Element Analysis
	Physics	Iavarone, Maria	US Department Of Energy	Vortex Matter in Confined Superconductors and Mesoscopic Hybrid Heterostructures

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Science & Technology	Physics	Martoff, Jeffrey	National Science Foundation	Collaborative Research: Direct Search for Dark Matter with Underground Argon at LNGS
	Physics	Martoff, Jeffrey	National Science Foundation	Collaborative Research: R & D Towards DarkSide-G2, a Second-Generation Direct Search for Dark Matter
	Physics	Martoff, Jeffrey	National Science Foundation	Collaborative Research:Darkside: Direct Dark Matter Search
	Physics	Tao, Rongjia	Save The World Air, Inc.	Research on Crude Oil Viscosity Reduction and Diesel Fuel Injection
	Physics	Tao, Rongjia	Office of Naval Research	Development of Magneto-Optic Sensor Materials
	Physics	Xi, Xiaoxing	US Department Of Energy	Raman Spectroscopic Study of Coupling Btwn Magnetic Ferroelectric Orders in Nanoscaled Thin Film Superlattice
TOTAL FUNDED FACULTY		36		