

TEMPLE UNIVERSITY
FACULTY WITH FUNDED SUSTAINABILITY RESEARCH DURING FISCAL YEAR 2013
Prepared by Office of Sustainability

School	School/Department	Investigator Name	Sponsor	Project Title
Art (Tyler)	Architecture	Harrison, Sally	Village of Arts & Humanities	Digging Deeper
Business (Fox)	Mgt & Business Adm.	Hutchin, James	Willis Research Network	Sustainability and Financial Performance
Communications & Theater	Administration	Jacobson, Thomas	Wyncote Foundation	Regional Public Interest Journalism Collaborative
Education	Center for Human Development	Stull, Judith	Office of Naval Research	Professional Development Kit for Effective Use, Customization and Construction of Advocacy Kits in Power & Energy
Engineering	Civil Engineering	Suri, Rominder	National Science Foundation	AIR: Water and Technology Innovation Ecosystem
	Civil Engineering	Suri, Rominder	Environmental Protection Agency	Assessment and Pollution Prevention of Emerging Contaminants used in Childcare Facilities
	Civil Engineering	Suri, Rominder	Ben Franklin Technology Partners of SE PA	PA Environmental Technologies for Pharmaceutical Industry (PETPI)
	Civil Engineering	Suri, Rominder	National Science Foundation	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	Ben Franklin Technology Partners of SE PA	Treatability Studies and Analytical Method Development for Active Pharmaceutical Ingredients
	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	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

**TEMPLE UNIVERSITY
 FACULTY WITH FUNDED SUSTAINABILITY RESEARCH DURING FISCAL YEAR 2013
 Prepared by Office of Sustainability**

School	School/Department	Investigator Name	Sponsor	Project Title
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	University of Minnesota	A Nationwide Consortium of Universities to Revitalize Electric Power Engineering Education by State-of-the-Art Laboratories
	Mechanical Engineering	Kiani, Mohammed	Infinia Corporation	Base-load Thermal Storage System
	Mechanical Engineering	Neretina ,Svetlana	National Science Foundation	NUE: A Sustainable Urban Environment Advanced by Engineers Empowered with Nanotechnology
	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	Drexel University	High Power Gliding Arc for Clean Energy Technologies of H2 Production from Biomass, Coal and Organic Wastes
Environmental Design	Ctr. For Sustainable Communities	Featherstone, Jeffrey	William Penn Foundation	Temple-Villanova Sustainable Stormwater Initiative; Phase IV, Integrated Stormwater Management
	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	William Penn Foundation	T-VSSI Breaking Down Barriers Phase IV
	Ctr. For Sustainable Communities	Meenar, Mahbubur	Environmental Protection Agency	Ambler-Area Watershed
	Landscape Architecture & Horticulture	Chapman, Grace	PA Dept. of Environmental Protection	Temple Ambler Greenhouse Stormwater Reclamation
Health Professions	Nursing	Rothman, Nancy	National Nursing Centers Consortium	Community Health Partners for Sustainability

**TEMPLE UNIVERSITY
 FACULTY WITH FUNDED SUSTAINABILITY RESEARCH DURING FISCAL YEAR 2013
 Prepared by Office of Sustainability**

School	School/Department	Investigator Name	Sponsor	Project Title
Liberal Arts	Geography & Urban Studies	Masucci, Michele	Knight Foundation	Urban Apps and Maps Studio
	Geography & Urban Studies	Mennis, Jeremy	Department of Housing & Urban Development	The Economic, Environmental, and Social Justice Impacts of Greening Vacant Lots: An Integrated Spatial Assessment of Urban Revitalization and Sustainability Outcomes
	Political Science	Ferman, Barbara	Best Buy Children's Foundation	POWER Internship
Medicine	CORE	Foster, Gary	The Food Trust	Data Analysis of Corner Stores
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 in the Gulf of Mexico
	Biology	Cordes, Erik	University of Mississippi	Ecosystem Impacts of Oil and Gas Inputs to the Gulf
	Biology	Marcinkiewicz, Cezary		WET Center - Temple University Pollution Prevention: Child Care Facilities
	Chemistry	Matsika, Spiridoula	US Department Of Energy	Sustainable Communities Initiatives
	Chemistry	Strongin, Daniel	US Department Of Energy	Complexities Affecting the Rate and Mechanism of Pyrite Oxidation: An Interdisciplinary Approach
	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	Wunder, Stephanie	National Science Foundation	Self-Assembled Multi-Ionic Lithium Salts for Solid
	Chemistry	Wunder, Stephanie		Solid Polymer Electrolytes with High Lithium Ion Conductivity and Transport Number for Hybrid Electric Power-Train System
	Computer Information Sciences	Vucetic, Slobodan		Healthy School & Corner Store Network Evaluation
Computer Information Sciences	Wu, Jie	National Science Foundation	TF-SING Energy-Efficient Design in Wireless Networks Using Cooperative Communication	

**TEMPLE UNIVERSITY
 FACULTY WITH FUNDED SUSTAINABILITY RESEARCH DURING FISCAL YEAR 2013
 Prepared by Office of Sustainability**

School	School/Department	Investigator Name	Sponsor	Project Title
Science & Technology	Computer Information Sciences	Wu, Jie	National Science Foundation	MRI-R2:Acquisition: A Hybrid High-Performance GPU/CPU System
	Earth and Environmental Science	Davatzes, Nicholas	US Geological Survey/ Department of Interior	Fault Geometry and the Mechanics in the Coso Geothermal Field
	Earth and Environmental Science	Davatzes, Nicholas	Ormat Technologies Inc.	Brady's Geothermal Field EGS Project Geomechanical Analysis
	Earth and Environmental Science	Davatzes, Nicholas	Department of Energy	Monitoring EGS Stimulation and Reservoir Dynamics with InSAR and MEQ
	Earth and Environmental Science	Davatzes, Nicholas		An Integrated Geological and Geomechanical Characterization for the Analysis of MEQ in EGS Experiments (Geysers)
	Earth and Environmental Science	Davatzes, Nicholas		Blue Mountain BHTV Log Analysis for Nevada Geothermal
	Earth and Environmental Science	Nyquist, Jonathan		Geophysical Prediction of Water Migration Along the Soil-Bedrock Interface at the Shale Hills Critical Zone Observatory
	Physics	Lyyra, A. Marjatta		POWER Internship
	Physics	Martoff, Jeffrey	National Science Foundation	Collaborative Research:Darkside: Direct Dark Matter Search
	Physics	Riseborough, Peter		Complexities Affecting the Rate and Mechanism of Pyrite Oxidation: An Interdisciplinary Approach
	Physics	Tao, Rongjia	Office of Naval Research	Development of Magneto-Optic Sensor Materials
TOTAL FUNDED FACULTY		33		