Faculty Members Engaged in Sustainability Research

Created by the Office of Sustainability at Towson University

Name	Department	Research Topic
Dr. Jeremy Tasch	Department of Geography	Nature Society Relationships:
	and Environmental Planning	Specifically the human
		dimensions of climate change
		in the circumpolar north, civil
		society and energy resource
		development in Azerbaijan,
		and intensive vs. extensive
		development in the Russian
		Far East and Asian Pacific
Dr. Martin Roberge	Department of Geography	Hydrology and how
	and Environmental Planning	urbanization affects flooding
Dr. Sya Kedzior	Department of Geography	Political Ecology and Human-
	and Environmental Planning	Environment Relationship
		Studies; Specifically
		environmental movements and
		knowledge politics surrounding
		water quality and pollution
		abatement efforts in India and the US
Dr. Paporn Thebpanya	Department of Geography	Uses GIS technology to asses
Dr. Paporii Tilebpaliya	and Environmental Planning	data collected for a variety of
	and Environmental Flaming	sustainability research projects
		in collaboration with other
		faculty members
Dr. Kent Barnes	Department of Geography	The changing extreme summer
	and Environmental Planning	temperatures frequencies in the
		Baltimore Metro Area.
Dr. Natalia Fath	Department of Geography	Integrating community-
	and Environmental Planning	service projects designed to
		expose students to new
		perspectives and ideas about
		cities and how to incorporate
		nature into cities.
		Understanding the network
		of food distribution in
		Baltimore. Food production
		and climate change. Urban
		farming.
Dr. Brian Fath	Department of Biological	Dr. Fath works to better
	Sciences	understand Sustainability

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		Science using network
		analysis, integrated
		environmental assessment,
		and complex systems
		science. An example of this is
		understanding the overall
		health and behavior of an
		ecosystem and its response
		to perturbations and how
		ecosystems interact with
		human systems and vice
		versa.
Dr. Jay Nelson	Department of Biological	Anthropogenic changes to
	Sciences	fish habitats across the globe,
		including: 1) How increasing
		temperatures as a result of
		climat change will effect fish
		populations 2) The ability of
		juvenile striped bass to
		survive in low oxygen
		environments such as areas
		of hypoxia in the Chesapeake
		Bay 3) Using the effects that
		urbanization and increase
		stormwater runoff has had
		on urban fish populations as
		a model for what we can
		expect to see in fish
		populations as a result of
		climate change.
Dr. Vanessa Beauchamp	Department of Biological	Research looks at efficacy of
	Sciences	stream restoration
		techniques and the impact of
		invasive species on forest
		ecosystems.
Dr. Roland P. Roberts	Department of Biological	Assisting in the organization
	Sciences	of the Towson University
		Biodiversity Center
Dr. John S. LaPolla	Department of Biological	Assisting in the organization
	Sciences	of the Towson University
		Biodiversity Center

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Dr. Steven Kimble	Department of Biological	Conservation of threatened
	Sciences	species, particularly reptiles
		and amphibians; Uses genetic
		tools to assess wildlife
		populations for threats such
		as disease or small
		population size.
Dr. Laura Gough	Department of Biological	Currently has two research
	Sciences	projects in Northern Alaska
		working on understanding
		how arctic tundra is
		responding to climate change
Dr. Christopher Salice	Department of Biological	The impact of anthropogenic
	Sciences	activities on ecological
		systems
Dr. Sarah Haines	Department of Biological	Integrating environmental
	Sciences	education into K-12 schooling
		and teacher preparation
		programs to enhance both
		teaching and student
		learning
Dr. Richard Siegel	Department of Biological	Conservation biology of
	Sciences	amphibians and reptiles
Dr. Mary Stapleton	Department of Biological	Works to educate k-12
	Sciences	students about Climate
		Change
Dr. Faith Weeks	Department of Biological	Using insects and related
	Sciences	arthropods to teach
		sustainability and science
		concepts and illustrate the
		role that insects play in
		ecosystems
Dr. David Ownby	Department of Chemistry	Developing models to
		accurately predict the effects
		and fates of metals in aquatic
		and terrestrial ecosystems.
Dr. John Sivey	Department of Chemistry	Studies the chemistry of
		drinking water treatment as
		well as environmental
		organic chemistry
Dr. Clare Muhoro	Department of Chemistry	Studies the role of transition
		metals in organic

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		transformations such as the
		degradation of organic
		pesticides in tropical aqueous
		environments.
Dr. Ryan Casey	Department of Chemistry	Investigating the role of road
		salt and stormwater ponds in
		the long term salinization of
		surface waters in this region.
Dr. Kathryn Kautzman	Department of Chemistry	Studies the effects of
		atmospheric aerosols on
		climate change and human
		health.
Dr. Joel Moore	Department of Physics,	Research focuses on using
	Astronomy, and Geosciences	geochemical tools to
		understand earth surface and
		atmospheric processes in
		natural and
		anthropogenically-impacted
		systems such as road salt and
		urban geochemistry
Dr. Amy Williams	Department of Physics,	The effects of urbanization
	Astronomy, and Geosciences	on Towson University's
		waterways and improving on
		campus stream health
		through citizen education,
		cleanup, and improved storm
		water and road salt
		management practices
Dr. Michael McGuire	Department of Computer	Machine learning, deep
	and Information Sciences	learning and big data
		integration focused on data
		in the climate, hydrological,
		and ecological sciences
Dr. Antonette Marzotto	Department of Political	Automobility and the
	Science	environment
Dr. James Manley	Department of Economics	Researches the health
		impacts of air pollution and
		finding efficient policies to
		improve nutrition in
		developing countries and
		policies to improve the U.S.

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		government's agriculture
		programs
Dr. Timothy Sullivan	Department of Economics	Gender and economics and
		feminist
		economics; particularly
		interested in both the early
		stages of industrialization and
		the transition either to or away
		from an industrial society
Dr. Seth Gitter	Department of Economics	Researches how fair trade
		coffee farming impacts
		children's education in Latin
		America
Dr. Jin Dong Park	Department of Accounting	Researches the effect of
		environmental regulation on
		firms' environmental
		performance
Dr. Islam Elshahat	Department of Accounting	Studies environmental
		performance and firm
		profitability in the oil and gas
	_	industry
Dr. Andrew Schiff	Department of Accounting	Studies the challenges
		renewable energy policy
	_	makers face from consumers
Dr. Jorge Romero	Department of Accounting	Environmental Accounting
		and the impact of
		environmental penalties
		assessed to publicly traded
		firms
Dr. Martin Freedman	Department of Accounting	Environmental Accounting
		and Ethics; Climate change
		disclosures by corporations,
		voluntary emission reduction
D. D. Harabara	Daniel and a Charles and a charles	initiatives
Dr. Douglass Ross	Department of Management	Integrating sustainability into
		MBA/EMBA programs,
		specifically, the CEO-asserted critical need for sustainability in
		critical need for sustainability in corporate strategy and MBA
		student perceptions of the
		extent to which their respective
		programs prepare them to
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		handle sustainability challenges
		successfully
Dr. Stephen Schroth	Department of Early	Using sustainability and
	Childhood Education	environmental education in
		early childhood education
		settings to develop children's
		scientific thinking skills
Dr. Robert Blake	Department of Elementary	Environmental Education
	Education	
Lynn Tomlinson	Department of Electronic	Creates productions
	Media and Film	addressing environmental
		change and to advocate for
		more sustainable policies
Dr. Lingling Zhang	Department of Mass	How to effectively use green
	Communications and	appeal in advertisements and
	Communications Studies	how to frame messages to
		better promote the products
		that could be beneficial to
		our environment
Dr. Emily Formentin	Department of Mass	Examining corporate video
	Communications and	sustainability reports
	Communications Studies	
Dr. Hua Chang	Department of Marketing	Green Advertising; how to
		frame the messages in green
		product advertisements to
		influence consumer
		behaviors and encourage
		them to engage in more
		green product consumption.
Dr. W. Dana Phillips	Department of English	Ecocriticism and the
		environmental humanities
Dr. Nicole Dombrowski-Risser	Department of History	Organic farming, sustainable
		agriculture, rural women in
		France, modern farming
		techniques, sustainable fruit
		cultivation, farm-
		environment balance,
		wartime rural destruction,
		climate change and fruit
		farming
Dr. Karen Oslund	Department of History	Environmental History;
		Nature, culture, and

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		storytelling in the North
		Atlantic; Currently working
		on a study of current and
		traditional whaling in the
		Arctic
Dr. Makmiller Pedroso	Department of Philosophy	The evolution of cooperation:
	and Religious studies	cooperation is essential to
		manage resources and build
		sustainable societies and this
		research gives insight into
		ways we could design social
		institutions to increase
		cooperation
Dr. Nicole Fabricant	Department of Sociology,	Currently working on zero
	Anthropology & Criminal	waste initiatives, community-
	Justice	owned community controlled
		solar projects, and land trusts
		in Curtis Bay. Also has a long-
		term participatory action
		research project in South
		Baltimore (at Benjamin
		Franklin High School Youth)
		documenting environmental
		injustice in their community
Dr. Emily Parker	Department of Women's and	The Anthropocene and
	Gender Studies	elemental multiplicity and
		environmental trajectories.
		Her work is ultimately
		concerned with how we can
		live on the earth in a
		sustainable way, even after
		centuries of violence.
Dr. Esther Wangari	Department of Women's and	Research seeks the
	Gender Studies	understanding of and
		interpretation of local
		experiences of marginalized
		communities in the context
		of global processes of
		environmental and economic
		change.

Name	Department	Research Topic
Dr. Craig Rush	Department of Psychology	Rebuilding sustainable
		communities for children and
		families after disaster