



**WATER @ MICHIGAN**

Thursday, January 21, 2016

Great Lakes Room, Palmer Commons, University of Michigan

**Workshop Goals:**

- Highlight diverse water-focused research on campus
- Connect current and new water researchers within and across disciplines
- Identify collaborative research opportunities
- Foster discussions to help spark future projects

**Light refreshments available beginning at 8:45 AM**

<b>9:00</b>	Convene and Welcome <i>Jennifer Read, Director, U-M Water Center</i>	
	Opening remarks <i>James Holloway, Vice Provost for Global and Engaged Education</i>	
<b>9:20</b>	Lightning talks – Current water research at U-M (see over) <i>Lightning talks are intended to spark ideas, to provide insight to a speaker’s research and/or interests, and to ignite conversation. There will be time for questions after each group of 5-6 speakers, and we encourage you to continue discussions during the breaks.</i>	
<b>10:30</b>	Break	
<b>10:50</b>	Lightning talks, continued	
<b>12:00</b>	Lunch	
<b>1:00</b>	Lightning talks, continued	
<b>1:30</b>	Breakout sessions focused on different approaches to research	
	<b>Fundamental Research</b>	<b>Multi- or Cross-disciplinary Research</b>
	<i>Research that helps answer fundamental questions within a scientific field</i>	<i>Research that integrates collaborators and approaches from distinct fields</i>
	<u>Facilitators</u> Greg Dick, <i>Earth and Environmental Sciences</i> Sarah Mills, <i>Ford School for Public Policy - Center for Local, State, and Urban Policy</i>	<u>Facilitators</u> Aline Cotel, <i>Civil and Environmental Engineering</i> Larissa Sano, <i>Sweetland Center for Writing</i>
	<u>Kick-off Speaker</u> George Kling <i>Ecology and Evolutionary Biology</i>	<u>Kick-off Speaker</u> Rose Cory <i>Earth and Environmental Sciences</i>
		<b>Applied Research</b>
		<i>Research designed to meet a specific need identified by users outside the research community</i>
		<u>Facilitators</u> Branko Kerkez, <i>Civil and Environmental Engineering</i> Margaret Kalcic, <i>U-M Water Center</i>
		<u>Kick-off Speaker</u> Catherine Riseng <i>School of Natural Resources &amp; Environment, Michigan Sea Grant</i>
<b>3:00</b>	Transition back to Great Lakes Central	
<b>3:15</b>	Closing discussion: How can the Water Center support the different research approaches?	
<b>4:00</b>	Networking Happy Hour	

**WATER @ MICHIGAN**  
**Lightning Session Speaking Schedule**

Time	Speaker	Campus Unit	Title
9:20	Brad Cardinale	School of Natural Resources and Environment	Biodiversity and Ecosystem Services in Freshwater Ecosystems
9:25	Mark Rowe	Cooperative Institute for Limnology and Ecosystems Research	Addressing Great Lakes issues with biophysical models
9:30	Paul Webb	School of Natural Resources and Environment	Living in a Turbulent World
9:35	Charles McCrory	Chemistry	Electrochemical Reduction of Groundwater Pollutants for Wastewater Remediation
9:40	Tom Johengen	Cooperative Institute for Limnology and Ecosystems Research	Monitoring and Forecasting Harmful Algal Blooms in the Great Lakes
9:45	<i>Discussion</i>		
9:55	Greg Dick	Earth and Environmental Sciences	Can hydrogen peroxide control the toxicity of harmful algal blooms?
10:00	Peter Adriaens	Civil and Environmental Engineering and Ross School of Business	Business Water Risk and the Capital Markets: How do we Engage the Investor Community
10:05	Mark Banaszak Holl	Chemistry	What's in the Water? Particle Characterization using AFM/IR
10:10	Jenna Bednar	Center for Political Studies, Institute for Social Research; Political Science	Properties of Robust Governance of Interstate Waters: The Case of the Ogallala
10:15	Krista Wigginton	Civil and Environmental Engineering	The benefits and challenges of "peecycling" in the United States
10:20	<i>Discussion</i>		
10:30	<b>B R E A K</b>		
10:50	William Schultz	Mechanical Engineering, Naval Architecture and Marine Engineering	NSF DCL: Innovations at the Nexus of Food, Energy, and Water Systems (INFEWS)
10:55	Andrew Ault	School of Public Health	Influence of Great Lakes Water Composition on Atmospheric Aerosol Emissions
11:00	Vincent Deneff	Ecology and Evolutionary Biology	The difference a species makes: impact of invasive species on freshwater microbial communities

**WATER @ MICHIGAN**  
**Lightning Session Speaking Schedule**

<b>Time</b>	<b>Speaker</b>	<b>Campus Unit</b>	<b>Title</b>
<b>11:05</b>	Victoria Campbell-Arvai	School of Natural Resources and Environment	A nudge or a heavy lift? Decision support approaches for sustainability
<b>11:10</b>	Rose Cory	Earth and Environmental Sciences	Microbes making disinfectants: hydrogen peroxide and harmful algal blooms in Lake Erie
<b>11:15</b>	<b><i>Discussion</i></b>		
<b>11:25</b>	J. David Allan	School of Natural Resources and Environment	What and where are the ecosystem services of Lake Erie?
<b>11:30</b>	Chuliang Xiao	Cooperative Institute for Limnology and Ecosystems Research	Projected hydroclimatology in the Great Lakes region in the 21st Century
<b>11:35</b>	Ayumi Fujisaki-Manome	Cooperative Institute for Limnology and Ecosystems Research	Great Lakes ice forecasts and climate research
<b>11:40</b>	Branko Kerkez, with Kevin Fries and Brandon Wong	Civil and Environmental Engineering	Building the Internet of Water
<b>11:45</b>			
<b>11:50</b>	<b><i>Discussion</i></b>		
<b>12:00</b>	<b>L U N C H</b>		
<b>1:00</b>	Paul Drevnick	University of Michigan Biological Station; School of Natural Resources and Environment	Energy and Materials Exchange between Terrestrial and Aquatic Ecosystems at the UM Biological Station
<b>1:05</b>	Allison Steiner	Climate and Space Sciences and Engineering	Extreme Precipitation: Where is all that water coming from?
<b>1:10</b>	Melissa Duhaime	Ecology and Evolutionary Biology	"Just one word...Plastics."
<b>1:15</b>	<b><i>Discussion</i></b>		