

## LCBP Missisquoi Watershed Research Workshop August 13, 2013

Last Name	First Name	Affiliation	Email	Project title
Smeltzer	Eric	VT DEC	<a href="mailto:Eric.Smeltzer@state.vt.us">Eric.Smeltzer@state.vt.us</a>	1. Revision of the Vermont TMDL
Park	Mi-Hyun	UMass Amherst	<a href="mailto:mpark@ecs.umass.edu">mpark@ecs.umass.edu</a>	1. Estimating Algal Blooms and Lake Water Quality Using Satellite Remote Sensing
Manley	Tom	Middlebury College	<a href="mailto:tmanley@middlebury.edu">tmanley@middlebury.edu</a>	1. Missisquoi Bay Hydrodynamics 2. Multibeam & Acoustic Classification
Manley	Pat	Middlebury College	<a href="mailto:manley@middlebury.edu">manley@middlebury.edu</a>	1. Surface Sediment Analysis (SSA) & Sediment Trend Analysis (STA)
Giles	Courtney	UVM	<a href="mailto:courtney.giles@uvm.edu">courtney.giles@uvm.edu</a>	1. Characterizing the Mobility and Bioavailability of Phosphorus in Missisquoi Bay Sediments: Time-Series and Spatial Investigations
Isles	Peter	UVM	<a href="mailto:peter.isles@uvm.edu">peter.isles@uvm.edu</a>	1. High-temporal-resolution monitoring of phytoplankton and nutrient dynamics
Winslow	Mike	Lake Champlain Committee	<a href="mailto:mikew@lakechamplaincommittee.org">mikew@lakechamplaincommittee.org</a>	1. Aquatic Natural Communities of Missisquoi Bay
Dorner	Sarah	Polytechnic Montreal	<a href="mailto:sarah.dorner@polymtl.ca">sarah.dorner@polymtl.ca</a>	1. The fate of cyanotoxins in Missisquoi Bay 2. Hydrodynamic modeling of cyanobacteria in Missisquoi Bay
Fortin	Nathalie	NRC	<a href="mailto:nathalie.fortin@nrc.ca">nathalie.fortin@nrc.ca</a>	1. Spatial and temporal variability of phosphorus and nitrogen in Missisquoi Bay and Pike River, Quebec (2008-2012) 2. Will rainfall events contribute to increased concentrations of nutrients in the bay? 3. What are the optimal conditions for cyanobacterial growth in the bay? 4. Fecal contamination in Missisquoi Bay and Pike river
Medalie	Laura	USGS	<a href="mailto:lmedalie@usgs.gov">lmedalie@usgs.gov</a>	1. New USGS water quality trends analyses
Schroth	Andrew	UVM	<a href="mailto:aschroth@uvm.edu">aschroth@uvm.edu</a>	1. High-Frequency Monitoring of Missisquoi Watershed Water Quality Using Cutting Edge Sensor Technology

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Michaud	Aubert	IRDA	<a href="mailto:aubert.michaud@irda.qc.ca">aubert.michaud@irda.qc.ca</a>	<ol style="list-style-type: none"> <li>1. Updating criteria for hydraulic design from micro-watershed hydrologic data analysis</li> <li>2. Phosphorus speciation and hydrologic pathways monitored at field and micro-watershed scales (Pike River)</li> <li>3. Modeling subsurface preferential flow in SWAT-Qc II (Pike River)</li> <li>4. Coupling climate change and hydrologic modeling; application to nutrient fluxes in Pike river watershed</li> <li>5. Spatio-temporal gradients in water quality: Land use and management effects (Pike River)</li> <li>6. Spatial discrimination of soil properties through remote sensing: Application to Zone management</li> </ol>
Ross	Don	UVM	<a href="mailto:dross@uvm.edu">dross@uvm.edu</a>	<ol style="list-style-type: none"> <li>1. Soil phosphorus landscape variability and soil mapping at a site along the Rock River</li> <li>2. P and NO3 sampling from corn to stream banks at four sites along the Missisquoi River and Black Creek</li> <li>3. Phosphorus Speciation in Riparian Soils along the Rock River</li> </ol>
Winchell	Mike	Stone Environmental	<a href="mailto:mwinchell@stone-env.com">mwinchell@stone-env.com</a>	<ol style="list-style-type: none"> <li>1. Identification of critical source areas of phosphorus pollution in Missisquoi Bay Basin</li> <li>1. Edge of field study to evaluate the effectiveness of agricultural conservation measures</li> </ol>
Middleman	Mike	VAAFMS	<a href="mailto:michael.middleman@state.vt.us">michael.middleman@state.vt.us</a>	<ol style="list-style-type: none"> <li>1. Implementation of research outcomes in the Missisquoi watershed</li> </ol>