



**Vermont Monitoring Cooperative**  
**2012 Annual Meeting - Monday, November 19, 2012**

Vermont Department of Forests, Parks & Recreation – The University of Vermont – USDA Forest Service

**LOCATION:** Livak Ballroom (Rm. 417), Davis Student Center, University of Vermont Campus

**“Acidification and Monitoring of Vermont’s Forest Resources”**

**8:15-9:00 am Registration – Refreshments – Poster set-up**

**9:00 am Welcome and Introductory Remarks**

*Larry Forcier, Principal Investigator, Vermont Monitoring Cooperative*

**9:15 am Acidification Session**

*Moderated by Rich Poirot, Air Quality Planner, Vermont Department of Environmental Conservation*

**9:15 am "EPA's Aquatic Acidification Index (AAI) and Supporting Studies."**

*Rich Scheffe, Senior Science Advisor, Air Quality Assessment Division, Office of Air Quality Planning and Analysis, U.S. Environmental Protection Agency*

**10:00 am "What are the Impacts of Acidification on Forest Tree Health and Growth in Vermont and How Do “Critical Loads” Analyses Help Us Predict What May Happen in the Future?”**

*Paul Schaberg, Research Plant Physiologist, Northern Research Station, U.S. Forest Service*

**10:25 am “Total Maximum Daily Load” Determination for Acid-Impaired Lakes by Using the “Critical Load” Capacity Approach”**

*Heather Pembroke, Environmental Technician, Vermont Department of Environmental Conservation*

**10:50 am Break - Refreshments and snacks – posters**

**11:05 am VMC Cooperators Session**

*Moderated by Sandy Wilmot, Forest Health Specialist & Climate Change Coordinator, Vermont Department of Forests, Parks and Recreation*

**11:05 am "Bioenergy Harvesting Impacts on Stand Structure and Carbon Fluxes in Northern Hardwood Forests"**

*William Keeton, Professor, Rubenstein School of Environment and Natural Resources, University of Vermont*

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- 11:20 am “Hydrology on High: Science to Guide Management of Mountain Development”  
*Jamie Shanley, Research Hydrologist, U.S. Geological Survey and Alejandro del Peral, MS Candidate, Rubenstein School of Environment and Natural Resources, University of Vermont*
- 11:35 am "Tenth-year Update on a 200-yr Soil Monitoring Study"  
*Donald Ross, Research Associate Professor and Ag Testing Lab Director, Plant and Soil Science Department, University of Vermont*
- 11:50 am “Progress Report on a Vermont Small Mammal Atlas”  
*C. William Kilpatrick, Howard Professor of Zoology and Natural History, Department of Biology, University of Vermont*
- 12:05 pm “A Proposal for the Development of a Vermont Water Quality Monitoring Council”  
*Neil Kamman, Program Manager, Monitoring, Assessment and Planning Program, Vermont Department of Environmental Conservation*
- 12:15 pm Poster Introductions
- 12:30 pm Lunch, and poster session**
- 1:15 pm Potential of using i-Tree for Protecting Vermont’s Forest**  
*Moderated by Larry Forcier*
- 1:15 pm “i-Tree 5.0: An Inventory, Modeling and Resource Calculator for Natural Resource Managers”.  
*David Bloniarz, Project Director, Urban Natural Resources Institute, Northern Research Station, U.S. Forest Service*
- 2:00 pm Panel questions on the potential for i-Tree to contribute to the VMC’s mission?  
  
*Panel Members:*  
  
*Jennifer Pontius, Research Assistant Professor, Rubenstein School of Environment and Natural Resources, University of Vermont & Cooperating Scientist, Northern Research Station, U.S. Forest Service*  
  
*Steve Sinclair, Director of Forests, Vermont Department of Forests, Parks and Recreation*
- 2:45 pm **Adjourn**

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## Posters

Growth and Control of flood dispersed Japanese Knotweed (*Fallopia japonica*) propagules. *By: Brian Colleran & Katie Goodall, Vermont Department of Fish and Wildlife and Plant and Soil Science Department, University of Vermont, respectively.*

Northeastern States Research Cooperative: A Research Program for the Northern Forest. *By: USDA Forest Service and NSRC Affiliates.*

Rehabilitation forestry and carbon market access on over-harvested, former industrial northern hardwood-conifer forests. *By: Emily Russell-Roy, William Keeton, Jennifer Pontius, and Charles Kerchner, Rubenstein School of Environment and Natural Resources, University of Vermont.*

Resilience in Stream E,P,T following TS Irene. *By: Vickie L. Backus, Alison B. Nurok and R. Matthew Landis, Department of Biology, Middlebury College, Middlebury VT 05753*

Stress Factors Contributing to Forest Decline in the Northern Hardwood Ecosystem. *Designed by: Stefan von Trapp*

The Vermont Monitoring Cooperative – A Long-Term Forest Ecosystem Monitoring Program. *By: VMC Partners & Staff*

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