

# Forests and Climate Change: Managing impacts and planning for the future

**9:00 to 5:30, December 14, 2018**

Davis Center -- University of Vermont -- Burlington, VT



## Agenda

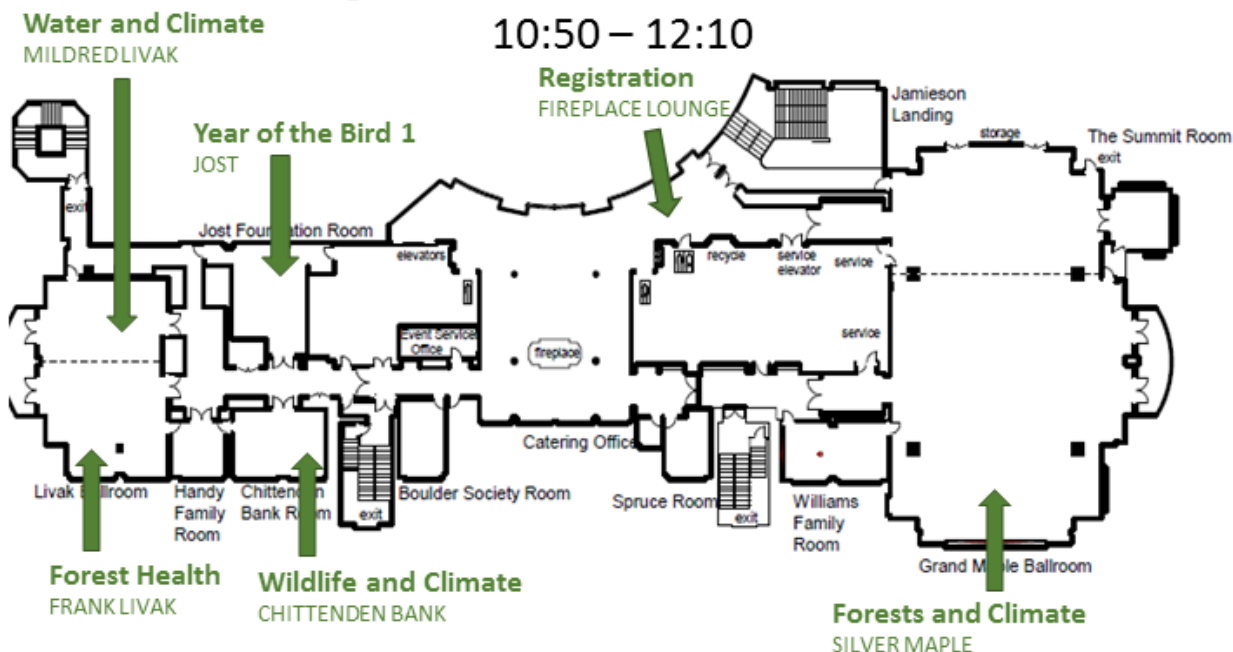
- 8:15 – 9:00**      **Registration and Coffee** (*Livak Fireplace Lounge. Coffee in Sugar/Silver Maple*)
- 8:30 – 8:45**      **What is the FEMC?** (*Williams Family Room*)  
First time at the FEMC conference? Want to learn more about what the FEMC does and how it works? Grab some coffee and join us for a quick pre-conference intro session to kick off your day.
- 9:00 – 9:20**      **Introduction and Welcome** (*Sugar/Silver Maple*)
- 9:20 – 10:30**    **Plenary: Climate Change Impacts on Northeastern Forests, Water, and Wildlife** (*Sugar/Silver Maple*)
- Maria Janowiak**, Deputy Director, Northern Institute of Applied Climate Science  
*What's at risk? Implications of climate change in our region's forests*
- Toni Lyn Morelli**, USGS Research Ecologist, DOI Northeast Climate Adaptation Science Center  
*Climate Change Vulnerability and Adaptation of Forest Wildlife*
- Keith Nislow**, Research Fisheries Biologist, USDA-Forest Service Northern Research Station  
*Water and aquatic ecosystems in a changing regional climate*
- 10:30 – 10:50**    **Coffee Break** (*Sugar/Silver Maple*)
- 10:50 – 12:10**    **Contributed Talks 1** (see grids on page 2)
- 12:10 – 1:20**     **Lunch** (*Sugar/Silver Maple*)
- 1:20 – 2:40**     **Contributed Talks 2** (see grids on page 3)
- 2:40 – 3:00**     **Coffee Break**
- 3:00 – 4:30**     **Working Groups** (see list on page 4)
- 4:30 – 5:30**     **Poster Session and Social** (*Silver Maple*)

# 10:50 – 12:10 Contributed Talks 1

**SPECIAL TRACK:** This track of talks continues throughout the day and connects to a working session in the afternoon.

<b>Forests and Climate</b> <i>Moderator: Maria Janowiak</i> <i>Room: Silver Maple</i>	<b>Wildlife and Climate</b> <i>Moderator: Toni Lyn Morelli</i> <i>Room: Chittenden Bank</i>	<b>Water and Climate</b> <i>Moderator: Kacey Clougher</i> <i>Room: Mildred Livak</i>	<b>Forest Health</b> <i>Moderator: Rebecca Stern</i> <i>Room: Frank Livak</i>	<b>Special Track</b> <b>Year of the Bird 1</b> <i>Moderator: John Lloyd</i> <i>Room: Jost Foundation</i>
Adaptive Silviculture for Climate Change: Examining strategies for adapting northern forests to global change <i>Peter Clark</i>	Quantifying the relative projected impacts of climate change and urban growth on the capability of the northeast to support wildlife <i>William V. DeLuca</i>	Climate change effects on water quantity and quality in the Northern Forest <i>Jamie Shanley</i>	Long-term bird monitoring in northeastern National Parks <i>Aaron Weed</i>	Forest Management on New York Wildlife Management Areas <i>Katherine Yard</i>
Vermont Agency of Natural Resources Guidelines for Implementing Assisted Migration of Plants on Agency Lands <i>Robert Popp</i>	Distribution dynamics of mesocarnivore populations along trailing and leading edges in the northeastern U.S. <i>Alexej P. K. Siren</i>	Tracking trajectories and sensitivities in forest water use <i>Mark Green</i>	Partnering with land managers to guide the search for EAB-resistant ash <i>Jonathan Rosenthal</i>	What do Woodland Owners in the Northeast Think of Bird Conservation? <i>Elizabeth Varanas</i>
Cold hardiness of American elm crosses bred for Dutch elm disease tolerance <i>Paul Schaberg</i>	A Slow Loss of Northern Forest Icons: Dynamics of Boreal Birds at the Edge of their Range in the Adirondack Park <i>Michale Glennon</i>	Effects of extreme high flow events on macroinvertebrate communities in Vermont streams <i>Jen Stamp</i>	Beaver Foraging Preferences and Impacts on Forest Structure in New York's Adirondack Mountains <i>Michael J Mahoney</i>	A New Paradigm for Forest Bird Conservation: A holistic approach to managing for multiple species guilds <i>Steve Hagenbuch</i>
Examining the future forest through tree seedling experiments <i>Nick Fisichelli</i>	The cost of reproduction in a greening world <i>Michael T. Hallworth</i>	A simulation modeling approach to investigate hydrologic regime transformations following Eastern hemlock mortality <i>Kanishka Singh</i>	Managing invasive species in light of climate change <i>Carrie Brown-Lima</i>	Forest bird conservation at Mass Audubon: the role of sanctuaries and private lands <i>Jeff Ritterson</i>

## Room Assignments for Contributed Talks Session 1

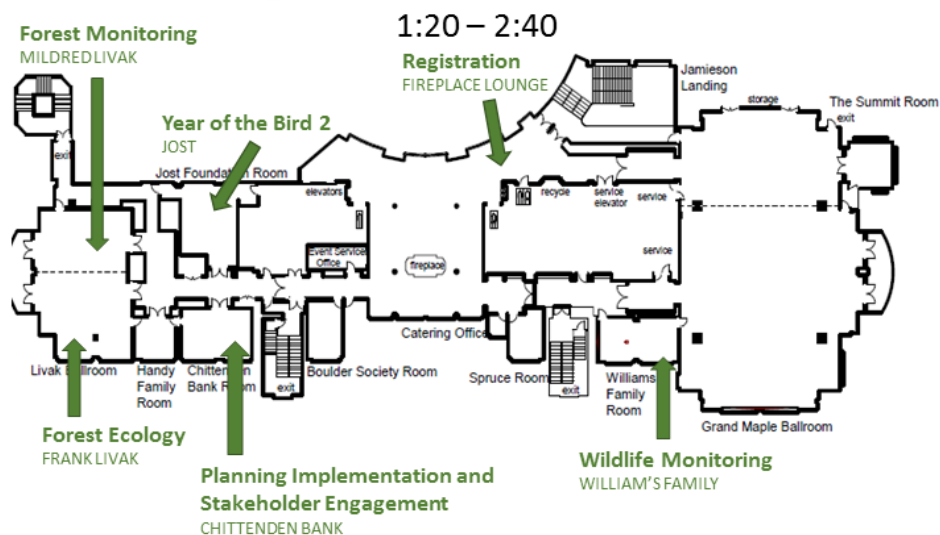


# 1:20 – 2:40 Contributed Talks 2

**SPECIAL TRACK:** This track of talks continues throughout the day and connects to a working session in the afternoon.

<b>Forest Ecology</b> <i>Moderator: Kacey Clougher</i> <i>Room: Frank Livak</i>	<b>Forest Monitoring</b> <i>Moderator: Adam Noel</i> <i>Room: Mildred Livak</i>	<b>Planning, Implementation, and Stakeholder Engagement</b> <i>Moderator: Alex Neidermeier</i> <i>Room: Chittenden Bank</i>	<b>Wildlife Monitoring</b> <i>Moderator: Brendan Case</i> <i>Room: Williams Family</i>	<b>Special Track</b> <b>Year of the Bird 2</b> <i>Moderator: John Lloyd</i> <i>Room: Jost Foundation</i>
Importance of woody debris dynamics in understanding the forest carbon cycle <i>Shawn Fraver</i>	What have we Learned from Monitoring Maine's Ecological Reserves? <i>Andy Cutko</i>	Progress Report: Aligning the Northeastern States Research Cooperative and Forest Ecosystem Monitoring Cooperative <i>Elissa Schuett</i>	Staying relevant: a cooperatively-designed online database to house natural resource survey data collected by citizen scientists <i>Jason Hill</i>	From keystone initiatives to landscape programs: a decade of investing in forest conservation for birds-outputs, outcomes and lessons learned <i>Scott Hall</i>
Major species of the Northern Hardwood forest: evaluating trends and environmental drivers of growth in the state of Vermont <i>Rebecca L. Stern</i>	Trends (?) in Exchangeable Cations after Fifteen Years into a 150-Year Soil Monitoring Study <i>Don Ross</i>	Young and Old Forest Targets for an Ecologically Functional Landscape <i>Bob Zaino</i>	Establishing Baseline Distribution Data on Vermont's Reptiles and Amphibians: The 2018 Maps and Species to Watch <i>Jim Andrews</i>	Bird Conservation on Commercial Forests in the Northern Forest <i>Henning Stabins</i>
Long-term monitoring reveals forest community change driven by atmospheric deposition and contemporary climate change <i>Brittany Verrico</i>	Forest disturbance: there is more of it than you think <i>Jarlath O'Neil-Dunne</i>	Flower Brook Watershed Phosphorus Mitigation: Landscape Assessment and Project Implementation <i>Hilary Solomon</i>	Using remote-triggered camera traps to describe patterns of mammal species richness and abundance in relation to anthropogenic and ecological factors <i>Alyssa Valentyn</i>	What remote sensing tells us about the regions changing forests <i>Alison Adams</i>
Ecosystem services and biodiversity as outputs of forest stand development in the American Northeast <i>Dominik Thom</i>	Tracking Parcelization Over Time to Inform Planning and Policy <i>Jamey Fidel</i>	Bringing Vermont Conservation Design to Private Landowners in the VT Coverts Cooperator Network: Strategies, Challenges, and Areas of Opportunity <i>Carolyn D. Loeb</i>	Monitoring the Effects of Prescribed Burns on Common Nighthawk and Eastern Whip-poor-will Populations in New Hampshire's Ossipee Pine Barrens <i>Jason Mazurowski</i>	Using citizen science data in integrated population models to inform conservation <i>Orin Robertson</i>

## Room Assignments for Contributed Talks Session 2



3:00 – 4:30

## Working Groups *(Rooms listed below)*

*Proposed and organized by cooperators, these working group sessions provide opportunities to focus on key issues and priorities of members of the Cooperative*

### **Confirmed working sessions include:**

#### **By Land, Water, or Air: Invasive Species Management in a Changing Forest Landscape**

*Organizer:* Joanne Garton, Vermont Forests, Parks, and Recreation

*Location:* Chittenden Bank

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#### **Managing Climate Change Impacts: What Questions Still Remain?**

*Organizer:* Maria Janowiak, Northern Institute of Applied Climate Science and Amanda Mahaffey, Forest Guild

*Location:* Mildred Livak

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#### **Northeastern Forest, Wildlife, and Climate Change: Understanding Impacts and Planning for the Future**

*Organizer:* Toni Lyn Morelli, USGS – Northeast Climate Adaptation Science Center

*Location:* Frank Livak

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#### **Special Track Bird Conservation in the Year of the Bird**

*Organizer:* John Lloyd, Vermont Center for Ecostudies

*Location:* Jost Foundation

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#### **Data Scavenger Hunt and Lawn Game Social: Explore FEMC Tools, Play Games, Meet People**

*Organizer:* FEMC Staff

*Location:* Sugar Maple

