

# New England Society of American Foresters

## 95<sup>th</sup> WINTER MEETING

March 24 – 27, 2015

Lake Morey Resort, Fairlee, VT 05045



### Tuesday, March 24, 2015

1:00 – 5:00 PM

NESAF Executive Committee Meeting

### **Lake Morey, Here we come again...**

**Please note:**

As a result of popular demand, the Green Mountain Division is again hosting the annual meeting at the Lake Morey Resort in Fairlee, VT, a location near White River Junction, more central to New England, and a shorter drive for most of the region.

Stick around and take advantage of the activities on the program outside the formal sessions. In addition to NESAF traditions like the quiz bowl and the alumni socials, some of our members, exhibitors, and other colleagues will be offering demonstrations and workshops of interest.

The weather at the end of March can vary greatly, making outdoor activities dependent on conditions. The Lake Morey Resort has many facilities available, like ice skating (including a Nordic skating track), ice fishing, and access to a network of trails for snowmobiling, cross-country skiing, and hiking.

The resort has some skates and skis on hand, but you may want to bring your own. Also, bring your instrument for the music jam (all abilities welcome), your snowshoes if weather permits, or your running shoes.

For more information, visit the Lake Morey web site, [www.lakemoreyresort.com](http://www.lakemoreyresort.com), or call 1-800-423-1211.

### Wednesday, March 25, 2015

8:00 – 5:00

NESAF Registration – Lobby

#### GENERAL SESSION

Terrace Ballroom

10:00 Welcome –

Jim Harding, Chair NESAF  
Charlie Hancock, Chair GMSAF  
Invited dignitary

10:40 Keynote Address

Topic: “**Forest Management and the Land Ethic**”  
Speaker: **Jed Meunier**, Wisconsin Department of Natural Resources

12:00 – 2:00

**Buffet Lunch and NESAF Business Meeting – Dining Room**

2:00 – 2:15

**Break and Exhibits/Posters – Morey Room**

2:15 - 3:45

#### CONCURRENT SESSIONS A

**Technical Session 1: Silviculture I: Mixedwood Management – Terrace Ballroom**

Moderator: Laura Kenefic

**Mixedwood management and forest health: spruce budworm:** Dave Maclean, UNB

**Productivity benefits of mixedwoods: oak-pine:** Justin Waskiewicz, UVM

**Mixedwood management and ecological forestry:** Patricia Raymond, QMFF

**Technical Session 2: Species under Stress: Bats and Martens – Lakeside Room**

Moderator: Ed O’Leary, Vermont Department of Forests, Parks, & Recreation

**Endangered Bats and Forest Management:** Scott Darling, VT Fish & Wildlife

**Marten in the Northeast:** Jill Kilborn, NH Wildlife Dept.

**Technical Session 3: New Environmental Education Initiatives to Engage Youth and the Public – Waterlot Room**

Moderator: Susan Cox, U.S. Forest Service

**Science, Technology, Engineering and Math (STEM) –** Lara Gengarely, UNH Cooperative Extension

**Environmental Literacy Plans—A Way to Greater Understanding of Forests –** Alicia Carlson, UNH Cooperative

**Citizen Science and the New England Stewardship Network –** Malin Clyde, UNH Cooperative Extension

**Forest Inventory Growth Project –** Pat Maloney, Maine PLT

# Changing Silviculture in a Changing World

## Wednesday, March 25, 2015 (continued)

### Technical Session 4: Forest Pest Updates - Theater

Moderator: Barbara Schultz, Vermont Department of Forests, Parks, & Recreation

**Asian Longhorned Beetle: Status of the Eradication Effort in Massachusetts:** Ken Gooch, MA Dept. of Conservation and Recreation

**Managing Ash Forests with Emerald Ash Borer Infestations Nearby:** Kyle Lombard, NH Division of Forests and Lands

**Non-traditional Pests: How Deer and Interfering Species Hamper Forest Regeneration:** Jeffrey Ward, CT Agricultural Experiment Station

3:45 – 4:00 Break and Exhibits/Posters – Morey Room

4:00 – 5:30 CONCURRENT SESSIONS B

### Technical Session 5: Silviculture II: Uneven-aged northern hardwood management for small family woodlots – Terrace Ballroom

Moderator: Jeff Ward

Focus on landowners with smaller parcels who wouldn't consider openings > 1/5 acre (~100 ft radius)

**Overview of small family woodlots (number, land, objectives, etc.):** Brett Butler, USFS NRS Amherst, MA

**Regeneration challenge: keeping mid-tolerants and intolerants in the mix:** Mark Ashton, Yale

**Multi-age crop tree management** – David Paganelli, VT Forests, Parks, and Recreation

### Technical Session 6: Urban Forestry Topics – Lakeside Room

Moderators: John Parry, USFS NA S&PF, and Danielle Fitzko, Vermont Department of Forests, Parks, & Recreation

**Urban Forests as a Hedge to a Changing World – Andrew Whitman, Director, Sustainable Economies Program - Manomet Center for Conservation Sciences**

**Putting Tree Inventories and Canopy Assessments to Work: Translating data into actionable plans – Danielle Fitzko, Urban & Community Forestry Program Coordinator, Vermont Division of Forests, Parks and Recreation**

**New Tools to Assess the Urban Forest – John E. Parry, Urban Forestry Specialist, USDA Forest Service, Durham, NH**

### Technical Session 7: Conservation to Address a Changing Climate – Waterlot Room

Moderator: Charlie Hancock

**Regional Conservation Partnerships, Beginning to Address Climate Change:** Bill Labich, Highstead

**The Staying Connected Initiative – Sustaining Forested Connections for Nature and People in a Changing Climate:** Phil Huffman, TNC VT

**Interior Songbirds & Climate Change on Private Lands:** Steve Hagenbuch, Audubon VT, and Nancy Patch, Vermont Department of Forests, Parks, & Recreation

### Technical Session 8: Invasive Plant Species Updates – Theater

Moderator: Ginger Anderson, Vermont Department of Forests, Parks, & Recreation

**Invasive plants, Early Detection and Prioritization on public lands:** Cynthia Boettner, US Fish & Wildlife Service

**Managing invasive plants for different ownerships:** Chris Polatin, Polatin Ecological Services

**The invasive plant mapping project in Chittenden County, VT:** Ginger Anderson

5:30 – 6:30 Theater: Student Quiz Bowl

Morey Room: Woodcraft and Technology Demos / Posters and Exhibits

Steamboat Lounge Ice Breaker

6:00 – 8:00 Pizza for Students After the Quiz Bowl – sponsored Pizza for STUDENTS

6:00 – 8:00 Dinner Cash Buffet in the dining room or on your own

7:30 – 9:30 Entertainment: Steamboat Lounge – Patti Casey and Colin McCaffrey – Singers/songwriters of the first order!

## Thursday, March 26, 2015

7:00 – 5:00 Registration – Lobby

7:00 – 8:30 Continental Breakfast – Morey Room

7:30 – 8:30 Working Group Meetings – locations TBA

Student Meeting – Waterlot Room

Green Mountain Division Business Meeting – Lakeside Room

### GENERAL SESSION

Terrace Ballroom

8:30 – 10:00 Panel Discussion: Climate Change and Biodiversity

Combining tree species models from the Climate Change Tree Atlas with traits to assess vulnerability to climate change: Louis Iverson, USFS, NRS, Delaware, OH

Biodiversity in the Northern Forest: Joe Roman, UVM Gund Institute

10:00 – 10:30 Break / Exhibits / Posters - Morey Room

10:30 – 12:00 CONCURRENT SESSIONS C

Technical Session 9: Offered Presentations I: "Flash Talks" – Edgewater Room

Moderator: Mark Twery, USDA Forest Service, NRS, Burlington, VT

8 speakers, 10 minutes each — Come see who has breaking news!

Annual Meeting

New England Society of American Foresters

March 25 – 27, 2015

# Changing Silviculture in a Changing World

**Thursday, March 26, 2015, continued**

## **Technical Session 10: Carbon Management – Lakeside Room**

Moderator: Nancy Patch

**Biochar: What is it and what do we do with it?:** Michael Low, Vermont Biochar

**Forest Carbon Projects: New England Experience and Outlook:** Dylan Jenkins, Finite Carbon, and Liz Adams, Lyme Timber

## **Technical Session 11: Silviculture III: Climate Change Implications for Silviculture – Theater**

Moderator: John Brissette

**Something Old, Something New: Silvicultural Strategies for Addressing Climate Change:** Anthony D'Amato, University of Vermont

**Managing Northeastern Forests for Flood Resilience in the Face of Climate Change:** William Keeton, University of Vermont

**Climate Change: Should We Rewrite Our New Northern Hardwood Guide?:** Bill Leak, USFS, Northern Research Station

## **Technical Session 12: Tools for Forest Adaptation: – Waterlot Room**

Moderator: Dave Paganelli

**Linking trees and birds to understand climate change impacts and assist in habitat management adaptation:** Steve Matthews, USFS, Northern Research Station, Delaware, OH

**Learning by Example: Vermont's Forest Adaptation Tools in Action:** Sandy Wilmot, VT FPR

**Woods, Water, and Wildlife: Designing Management Actions for Changing Conditions:** Maria Janowiak, USFS, Northern Research Station

**12:00 – 2:00 NESAF Awards Luncheon – Terrace Ballroom**

**2:00 – 3:30 CONCURRENT SESSIONS D**

## **Technical Session 13: Spatial Analysis Applied to Climate Change – Theater**

Moderator: Sandy Wilmot

**Using ANR's BioFinder to Prioritize and Plan for Biological Diversity in a Changing World:** VT Fish & Wildlife,

**Changes to the Land: Understanding the Future of the Forested Landscape of New:** Kathy Lambert Fallon, Harvard Forest

**Selecting Appropriate Soils for Sugar Maple Management & Potential Refugia:** Dr. Lee Allen, ProFor Consulting and Professor Emeritus NC State

## **Technical Session 14: Insect-borne diseases: Why foresters should pay attention – Lakeside Room**

Moderator: Si Balch

**Richard Pollack, Harvard University**

## **Technical Session 15: Wind Energy in the Northern Forest – Edgewater Room**

Moderator: Nancy Patch

**Utility Scale Wind and Natural Resource Protection in Vermont:** Jeff Nelson, VHB Environmental Power

**Impacts of Industrial Wind on Wildlife and Core Habitat:** Susan Morse, Peak Keepers

## **Technical Session 16: Offered Presentations II: "Flash Talks" – Waterlot Room**

Moderator: Mark Twery, USDA Forest Service, NRS, Burlington, VT

8 speakers, 10 minutes each — Come see who has breaking news!

**3:30 – 5:00 Poster Session with Authors present/ View Exhibits – Morey Room**

**5:00 – 6:00 Wildlife Tracking Workshop - Lakeside Room**

*Who Is In The Woods With You? A New Way of Tracking*

Join forester/tracker Lynn Levine, author of a new book *Mammal Tracks and Scat: Life-Size Pocket Guide*, to hone your tracking skills. This in-depth, hands-on session (with carefully preserved feet, fur, and scat) will include learning about the movement patterns of mammals, their track patterns, their scat, and other signs. Come and share your own tricks of the trade.

Lynn is also co-author of *Working with Your Woodland: A Landowner's Guide*; *Mammal Tracks and Scat: Life-Size Tracking Guide*; and author of *Snow Secrets*.

**5:30 – 7:30 Alumni Socials – locations To Be Announced**

**6:00 – 8:30 Dinner Cash Buffet in the dining room or on your own**

**6:30 – 8:00 Forest Guild and friends informal dinner - cash buffet in the dining room**

**8:00 – until Traditional music jam session – Steamboat Lounge – bring your instrument(s)**

# Changing Silviculture in a Changing World

**Friday, March 27, 2015**

**7:00 – 8:30** Registration and Continental Breakfast

## **FIELD TRIPS**

**8:30 – 12:30**

Field trips will convene in meeting rooms for 20 to 40 minutes for indoor presentations, then organize carpools and proceed to field sites. **BYO: hardhat and safety equipment.**

**Field Trip 1: Silvicultural Options for Managing Invasives:** the experiences of Dave Paganelli, Orange County Forester

**Field Trip 2: Tour of the Ryegate Power Plant** (Peter Condayis)  
The field trip to Ryegate Power Station will be a tour of a 20-MW wood-fired electrical generating facility that burns 250,000 tons of wood chips annually. Ryegate Station has operated since 1992, generating renewable electric energy to power 20,000 homes. Wood fuel derived from Vermont sources is subject to Ryegate's "Harvesting Policy For Whole-tree Chipping in Vermont", requiring Vermont chip harvest sites to meet silvicultural, wildlife, water quality and other considerations.

**Field Trip 3: Wood-fired boilers for public buildings** Organizer: Paul Frederick  
This will be a tour of the Grafton County NH Complex's Biomass District Heating plant with Jim Oakes, Maintenance Superintendent on March 27th at 9:00 for the NESAF Meeting. The facility is located at 3855 Dartmouth College Hwy. in North Haverhill, NH. The wood heating system heats the county's administrative offices, nursing home, courthouse, and supplies domestic hot water to the county jail, all on the 757-acre North Haverhill campus. The Grafton County Complex in North Haverhill is a 30-minute drive from Fairlee.

**Field Trip 4: Furniture Manufacturing in the Connecticut Valley** (Organizer: Sam Schneski)  
We plan to visit Copeland Furniture in Bradford, VT. They are an award winning company that has a very compelling green story (<http://www.copelandfurniture.com/greenfurniture.php>).

**Field Trip 5: Forest Management in a National Park:** the Marsh-Billings-Rockefeller National Historical Park, Woodstock, VT.  
Talk with the foresters who manage the only National Park with active forest management as part of its mandate, and see forests with some of the longest history of management in North America.

## **WORKSHOPS**

**8:30 – 12:30**

**Workshop 1: Tree Farm Inspector Training**  
2015 brings new Tree Farm certification standards and all Tree Farm foresters will need to update training during the year to remain certified inspectors. This is a great opportunity to update your training in a lively and engaging setting with Kathy Beland, 2014 National Tree Farm Inspector of the Year (aka, the Queen).

**Workshop 2: Using NED-3 software to make better prescriptions – Waterlot Room**  
(Organizers: Ken Desmarais, Susan Stout, and Mark Twery) This hands-on workshop is designed to help foresters use NED-3 software to utilize timber cruise data to better develop silvicultural prescriptions. We will briefly review how to input or import various data into NED-3 and then with shared data sets conduct simple and moderately complex analyses for use in writing silvicultural prescriptions. Topics will include timber volume growth and yield, economics, and managing for wildlife habitat.

**Workshop 3: Developing and Applying Land Cover and Forest Harvesting Scenarios for New England – Lakeside Room**  
(Leaders: Kathy Fallon Lambert, Director of the Science Policy Exchange, Harvard Forest; and Jonathan Thompson, Senior Ecologist, Harvard Forest)  
Jonathan Thompson is a forest landscape ecologist who studies long-term and broad-scale changes in forest ecosystems, with an emphasis on quantifying how land use - including harvest, conversion, and conservation - affects forest services and processes. Occasionally he'll sneak out and collect data in the field, but more often he relies on simulation models, remote sensing, and large databases to understand landscape dynamics. Thompson came to Harvard Forest in November, 2013. He received a PhD in Forest Ecology and an MS in Forest Policy from Oregon State University.

## **CFE credits are available from SAF**

Licensing credits are pending for individual New England states.

This meeting has been certified by SAF for attendees to receive continuing education credits up to the amounts listed for each day. Forms to certify attendance and credit will be available at the meeting.

|                |                        |                        |
|----------------|------------------------|------------------------|
| Wednesday,     | March 25, 2011:        | up to 4.0 hours        |
| Thursday,      | March 26, 2011:        | up to 5.5 hours        |
| <u>Friday,</u> | <u>March 27, 2011:</u> | <u>up to 3.5 hours</u> |
| Total          |                        | up to 13.0 hours       |