



**NESAF Annual Winter Meeting**  
**Forests and Forestry: Changing, Adapting, Growing**  
 March 27-29, 2019  
 Doubletree by Hilton, Burlington, VT

**Wednesday, March 27**

8:00 am to 5 pm **Registration, Exhibits and Posters**

10:00 am to 10:45 am **Call to Order & Welcome**

Julie Renaud Evans, NESAF Chair  
 Addison Kasmarek, Green Mountain Division Chair  
 Mike White, General Meeting Chair  
 Mike Snyder, Commissioner, VT Department of Forests, Parks and Recreation

10:45 am to 12:00 noon

**Keynote: Legacies, Inertia, and Community. New England Conservation in Time**  
**Dr. David Foster**, Director, Harvard Forest, Harvard University

Noon to 2:00 pm **Lunch**

12:30 to 2:00 pm **Business Meeting**

2:00 to 3:15 pm **Concurrent Sessions**

**Forestry impacts on hydrology and aquatic habitats**

**Speakers:**

Jud Kratzer (VT Fish & Wildlife Dept.); Diane Timmins (NH Fish & Game Dept.); Mark Green (Plymouth State U.)

**Emerging and recent forest health issues affecting New England forests**

**Speakers:**

Kara Costanza (U. New Brunswick); Josh Halman (VT Forests, Parks & Recreation); Kevin Dodds (USFS)

**Changing dynamics for Family Forest ownerships in the northeastern US**

**Speakers:**

Meg MacLean (Harvard Forest) and Brett Butler (USFS); Paul Catanzaro (UMass); Katherine Hollins (Yale) and Amanda Mahaffey (Forest Stewards Guild)

**Current and emerging markets for forest products: regional and global perspectives**

**Speakers:**

Donna Cassese (SAPPI); Charlie Levesque (Innovative Natural Resource Solutions); TBD (Hull Forest Products)

3:15 to 3:45 pm **Break**

3:45 pm to 5:00 pm **Concurrent Sessions**

**Forest wildlife habitat management**

**Speakers:**

Mariko Yamasaki (USFS); Ryan Stephens (UNH); Lisa Wahle (CT Dept. of Energy & Environmental Protection)

**Silvicultural strategies for addressing challenges posed by American beech**

**Speakers:**

Ralph Nyland (SUNY-ESF); Stacy McNulty (SUNY-ESF); David Houston (USFS)

**Responding to market changes: Landowner behaviors and potential management improvements through diversification**

**Speakers:**

Jianheng Zhao (UMaine); Karin Bothwell (AMC); Jessica Leahy (UMaine)

**Boots-on-the-ground applications of emerging technologies to forest management**

**Speakers:**

Chris Fife (Weyerhaeuser Co.); Dave Wilcox (VT Forests, Parks & Recreation); John Bryant (AFM, Inc.)

5:30 to 7:00 pm **Ice Breaker Reception**

<b>Thursday, March 28</b>			
7:00 am to 8:00 am <b>Working Groups</b>			
7:00 am to 8:00 am <b>Green Mountain Division Business Meeting – for GMD members</b>			
8:00 am to 5 pm <b>Registration, Exhibits and Posters</b>			
8:30 am to 9:45 am <b>Keynote: <i>A Thinking Community: The Forestry Profession and the Land Ethic</i></b> <b>Amanda Mahaffey (Forest Stewards Guild) and Dr. Lloyd Irland (The Irland Group)</b>			
9:45 am to 10:15 am <b>Break</b>			
10:15 am to 11:30 am <b>Concurrent Sessions</b>			
<p><b>Low Density White Pine—Management and Silviculture</b></p> <p><b>Speakers:</b> Robert Seymour (UMaine); William Livingston (UMaine); Alex Barrett (Long View Forest)</p>	<p><b>Status and management of emerald ash borer threat to New England’s forests</b></p> <p><b>Speakers:</b> Nate Siegert (USFS); Tony D’Amato (UVM); Rachel Nyce (APHIS); Stephen Lavallee (APHIS); Bill Davidson (NH Division of Forests &amp; Lands); Barbara Schultz (VT Forests, Parks &amp; Rec)</p>	<p><b>Changing moose dynamics in northern New England and New York</b></p> <p><b>Speakers:</b> Jacqui Frair (SUNY-ESF); Pete Pekins (UNH); Jacob Debow (UVM)</p>	<p><b>Collaborative models for forest management, land protection, and conservation finance at the regional scale</b></p> <p><b>Speakers:</b> Charlie Hancock (North Woods Forestry); Ed Hood (Opacum Land Trust); Christopher Riely (Providence Water)</p>
11:30 am to 1:20 pm <b>Awards Luncheon</b> Featuring an update on SAF activity by <b>Terry Baker – CEO of the Society of American Foresters</b>			
1:30 pm to 2:45 pm <b>Concurrent Sessions</b>			
<p><b>Low Density White Pine Management—Marketing and Utilization</b></p> <p><b>Speakers:</b> Keith Kanoti (UMaine); René Germain (SUNY-ESF); and Jim Frohn (UNH-Extension)</p>	<p><b>How do sugaring and forestry relate?: Modern sugaring techniques and their intersection with forestry</b></p> <p><b>Speaker</b> Mark Isselhardt (UVM); Followed by general discussion on forester experiences with managing stands for long-term sap production</p>	<p><b>Herbivory impacts on regeneration</b></p> <p><b>Speakers:</b> Haley Andreozi (UNH-Extension); Jeff Ward (CT Agricultural Experiment Station); Peter Smallidge (Cornell)</p>	<p><b>Forestry Speed Networking: Connecting forestry’s future with its present</b></p> <p><b>Panelists:</b> Emily Meacham (VT FPR); Jeff Tilley (USFS); Jim Frohn (UNH-Extension); Jennifer Fish (MA DCR); Barrie Brusila (Mid-Maine Forestry); Eric Hansen (Ferrucci &amp; Walicki, LLC)</p>
2:45 pm to 3:15 pm <b>Break</b>			

--- Thursday’s schedule continued on next page ---

**Thursday, March 28 - continued**

3:15 pm to <u>4:30-5:30 pm</u> <b>Concurrent Sessions</b>	<b>Note: Flash Talk session will run longer than other sessions.</b>
3:15 pm to 5:30 pm	3:15 pm to 4:30 pm

<b>Flash Talks</b>	<b>Regional efforts to conserve and sustain future forested landscapes</b>  <i>Speakers:</i> Bob Zaino (Vermont Fish & Wildlife); Andy Cutko (Nature Conservancy)	<b>Managing for forest ecosystem services across New England ownerships</b>  <i>Speakers:</i> John Gunn (UNH-Extension); Jesse Caputo (UMass); Bill Keeton (UVM)	<b>Tools and tactics for managing forests for adaptation and mitigation</b>  <i>Speakers:</i> Maria Janowiak (NIACS); Todd Ontl (NIACS), Steve Hagenbuch (Audubon VT)
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4:45 to 5:45 pm **NESAF Policy Committee Meeting**

5:00 pm to 7:00 pm **Student Quiz Bowl and light supper for students, pending sponsorship**

7:00 pm **Alumni Socials**

**Friday, March 29**

7:00 am to 8:00 am <b>Depart for field tours</b>	<b>SEE TOUR DESCRIPTIONS ON FOLLOWING PAGES</b>
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9 am to 11 am – 1pm (depending on tour)	
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<b>Burlington Electric Dept – biomass power plant</b> <span style="float: right; font-size: 2em;"><b>1</b></span>  Location – McNeil Station  Tour Leader- Betsy Lesnikoski and Bill Kropelin	<b>A. Johnson Company - hardwood lumber sawmill</b> <span style="float: right; font-size: 2em;"><b>2</b></span>  Location – Bristol, VT  Tour Leader – Tom Yager, Rob Fields and Paul Frederick	<b>UVM Proctor Maple Research Center</b> <span style="float: right; font-size: 2em;"><b>3</b></span>  Location – Underhill, VT  Tour Leader – Mark Isselhardt
<b>White Pine Silviculture</b> <span style="float: right; font-size: 2em;"><b>4</b></span>  Location – Reading, VT and Chester, VT  Tour Leaders – Russell Barnes, Alex Barrett, Karen Bennett, Jim Frohn and Robert Seymour	<b>Local Silviculture</b> <span style="float: right; font-size: 2em;"><b>5</b></span>  Location – Hinesburg, VT  Tour Leader – Ethan Tapper, Chittenden County Forester	<b>Marsh Billings Rockefeller National Historic Park</b> <span style="float: right; font-size: 2em;"><b>6</b></span>  Location – Woodstock, VT  Tour Leaders- Ben Machin and Kyle Jones

**Workshop: 8:30 to Noon - Practical Ethics Workshop**

Marianne Patinelli-Dubay, State University of New York College of Environmental Science and Forestry

This workshop will introduce a variety of approaches to ethical problem solving. We will learn about six of the primary methods that we employ every day when faced with ethically weighted situations. Following a discussion about each approach, its central ideas and an overview of how the method works, we will put those techniques to use to reach consensus on a series of case studies/project situations provided by participants.

## **Tour Descriptions:**

### **Tour #1. Burlington Electric (BED) McNeil Station (Wood Chip Plant)**

This tour will explore the McNeil Generating Station, a biomass power plant that can use either wood, gas, or oil as fuel. At full load, the plant consumes 76 tons of wood chips per hour, which produces 50 Megawatts of electricity. This tour will be led by Betsy Lesnikoski, Chief Forester (Burlington Electric McNeil Station); and Bill Kropelin, Retired Chief Forester (Burlington Electric McNeil Station).

Specific topics will include:

- discussions of wood fuel procurement
- harvesting standards
- wood delivery and storage
- power plant operation
- emission controls

### **Tour #2. A. Johnson Sawmill**

The A. Johnson Co., LLC sawmill is located in Bristol, VT in the foothills of the Green Mountains and at the edge of the Champlain Valley. This is a family-owned and operated forest products business producing high quality hardwood lumber for both the wholesale and retail markets. Hard maple is slightly more than half of production followed by red oak, soft maple, ash, yellow birch, and various other species. We also produce white pine lumber for our retail sales operation. This tour will be led by Tom Yager, Chief Forester (A. Johnson Sawmill); Rob Fields, Forester (A. Johnson Sawmill); Paul Frederick, Wood Utilization & Wood Energy Program Leader (Vermont Department of Forests, Parks and Recreation).

Specific topics will include:

- running a family-owned forest products operation
- diversified products
- procurement
- mill operations

### **Tour #3. Proctor Maple Research Center**

The Proctor Maple Research Center (PMRC) was founded in 1946 to research the basic physiology of sugar maple trees, the intricacies of the sap flow mechanism and the applied work of turning sap into pure maple syrup. The intervening +70 years of research has brought dramatic technological innovations to the craft of sugar making. The tour will introduce visitors to the forests and facility and explore some of the experiments that have been done in the past and those that are ongoing to this day. This tour will be led by Mark Isselhardt, Maple Specialist (University of Vermont Extension).

Specific topics will include:

- long term impacts of modern sap extraction on tree growth
- tapping strategies for avoiding disastrous seasons
- tap hole compartmentalization and sap yield

## **Tour # 4. Low Density Pine Silviculture**

This tour will visit multiple properties in east-central Vermont, and will discuss low density white and red pine silvicultural systems. Participants will view a range of stands that are in different stages of development and management. This tour will be led by: Russell Barnes, Founder of Long View Forest; Alex Barrett, Managing Forester (Long View Forest); Karen Bennett, Extension Forestry Professor and Specialist (UNH Cooperative Extension); Jim Frohn, Forestry Field Specialist (UNH Cooperative Extension); Robert Seymour, Professor Emeritus of Silviculture (University of Maine).

Specific topics will include:

- low density white pine systems on hardwood sites
- timing initial treatment in a white pine pole stand
- testing growth response of young (15yo) white pine stand thinned to different spacings
- effects of different equipment mixes on stand development
- effects of timing of entry on stand development
- using understory treatments to regenerate white pine

## **Tour #5. Local Silviculture**

The Hinesburg Town Forest (HTF) is an 864.5 forested parcel owned by the Town of Hinesburg, Chittenden County, Vermont. The parcel, listed on the National Register of Historic Places, is one of Chittenden County's oldest town forests, comprised of tax-derelict and abandoned hill farms acquired by the Town between the 1920's and 1950's. It has been actively managed as a unit for the last 70 year. This tour will view an active timber sale and will discuss a range of topics about the property and the current management. The tour will be led by Ethan Tapper, Chittenden County Forester (Vermont Department of Forests, Parks and Recreation).

Specific topics will include:

- uneven-aged silviculture, including irregular shelterwood method
- mitigation of deer browse impacts
- integrating timber harvesting with existing recreational infrastructure
- engaging the public in the active management of public lands
- building culture around responsible forest management, and the forest products economy

## **Tour #6. Marsh-Billings-Rockefeller National Historic Park**

Marsh-Billings-Rockefeller National Historical Park is the only National Park that has timber management as part of its mandate. Located in Woodstock, Vermont, the National Historic Park includes the Mt. Tom Forest—the oldest continuously managed forest in North America. The Park was designated Vermont Tree Farm #1, and it is the first property in the National Park Service system to gain FSC certification. Current forest management is planned and implemented in collaboration between the NPS and Redstart Natural Resource Management. The tour will be led by Ben Machin, Partner, Forester and Project Developer (Redstart); and Kyle Jones, Ecologist (Marsh-Billings-Rockefeller NHP).

Specific topics will include:

- active forest management within the National Park Service system
- forest management and historic site preservation

8 March 2019 – SUBJECT TO CHANGE

- plantation management—Norway spruce, European larch, white pine, red pine
  - land use and management history
  - special issues and concerns (e.g. historic values)
  - silviculture and recent treatments
- northern hardwood management
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  - special issues and concerns (e.g. historic values)
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