



**Northeast Silviculture Institute for Foresters
Spruce-Fir Session
UMaine, Orono and Penobscot Experimental Forest,
Bradley, Maine
June 13-14, 2018**

Tuesday, June 12, 2018

Early arrivals check-in to hotel. On your own.

Wednesday, June 13, 2018

7:30 – 8:30 AM Register

8:30 – 9:00 Welcome, Institute Overview including NASP and Introductions—Doug Denico, Carrie Sweeney, Charlie Levesque, and Karen Bennett

9:00 – 10:30 The spruce–fir forest type: using knowledge of species, stand dynamics, and land-use history to inform silviculture—Bob Seymour

- Species site requirements, vegetation associations, ecological relationships
- Tree regeneration characteristics, shade tolerance, successional trends, using species characteristics and management objective to determine silvicultural systems

10:30 – 10:45 Break

10:45 – noon The spruce-fir forest type (Continued)—Forest stand dynamics and effects of land-use history

- Northern White-Cedar: Guidance for Managers—Laura Kenefic

Noon – 12:45 Lunch

12:45 – 1:45 Economics of the spruce-fir type – Mindy Crandall

1:45 – 2:45 Forest health—Allison Kanoti

2:45 – 3:00 Break

3:00 – 5:00 Silvicultural systems and practices, including structure, composition, growth, and regeneration in even- and uneven-aged systems—Bob Seymour and Laura Kenefic

- Even-aged silviculture: clearcutting and shelterwood as regeneration methods, intermediate treatments (precommercial and commercial thinning)
- Uneven-aged silviculture: single-tree and group selection cutting, comparison to exploitative harvests, rehabilitation
- Ecological forestry: irregular shelterwood variants

5:00 – 6:00 Questions and answers and small group activity. Light food and drinks. Pick up box lunch for following day.

6:00 – 7:00 Dinner on your own

Evening—work on assignments and free time

Thursday, June 14, 2018

7:00 – 8:00 Breakfast on your own

8:00 Load up vans and carpool-vehicles at the University Inn

8:15 – 9:00 Travel to [Penobscot Experimental Forest](#)

End field trip at 4PM and return to Orono by 5PM

Field trip leaders

Mindy Crandall—economics

Allison Kanoti—forest health

Keith Kanoti—operational considerations including BMPs

Laura Kenefic—silvics and silviculture

Amber Roth: wildlife considerations

Bob Seymour—silvics and silviculture

Planned field stops

1.) Unmanaged (reference) stand

Forest type, natural disturbances

2.) Even-aged silviculture: managed (shelterwood) regeneration (C23)

Importance of advance regeneration

Even-aged silviculture: unmanaged regeneration (C22)

Natural development

Rehabilitation treatments

3.) Even-aged silviculture: density management and production forestry (C23, CTRN)

Precommercial thinning

Commercial thinning

12:15-12:45 Lunch

4) Multi-aged silviculture: reverse-J structure (C 16, 17)

Controlling species composition under an overwood

Importance of CWD

Contrast with exploitative repeated diameter-limit cutting (C15)

5) Multi-aged silviculture: area-based structures (AFERP irregular group shelterwood, group selection with reserves)

Wildlife, operations, and forest pest issues (balsam woolly adelgid; spruce budworm; hemlock woolly adelgid; windthrow susceptibility; root rots; spruce beetle; brown spruce longhorned beetle) to be discussed throughout