

Dynamic Forests Teacher Workshop, 2018

Exploring the life cycle of sustainable managed forests

FEATURING FOREST TOURS WITH FORESTERS & TOURS OF SAWMILL, PAPER MILL AND BIOMASS FACILITIES

Offering # 1 – August 9-10, 2018. Free Camping Available at Boulder Lake ELC for participants.

REGISTER HERE: <https://goo.gl/forms/laGQifMCX4K6PPTo2>



Day 1

10:00 a.m. – Participants arrive at Boulder Lake ELC.

- Welcome/Introductions
- Icebreaker
- **Part I: Basic Forest Ecology and Balancing Act of Sustainable Forest Management**
 - Soil & Water Conservation, Wildlife Habitat, Recreation, Aesthetics, Forest Regeneration, Economics, Invasive Species – Photo Language

Dynamic Forests Teacher Workshop, 2018

Exploring the life cycle of sustainable managed forests

- **Part 2: The Life Stages of a Northern Minnesota Mixed Forest**
 - Forest Management (Planning and Implementation) field tour
 - Visit the life stages of young mixed stand at multiple sites - all the way to a late successional stand (preserved from harvest) and an active harvest site including short-lived species (birch, aspen, balsam) and thinning of longer lived species (white pine, red pine, & white spruce)

Noon – 12:30 Lunch (Provided)

12:30-1:00 p.m. Travel to Lester River Sawmill

1:00-2:30 p.m.

- **Part 3: How is Harvested Wood Utilized?**
 - Lester River Sawmill Tour – watch saw timber (white pine, red pine, birch, & ash) being processed into finished dimensional lumber or flooring, paneling, etc.

2:30-4:30 p.m.

- **Part 4: Forests & Carbon Cycle**
 - Tree Identification
 - Global Carbon Cycle Activity-Forest Carbon Cycle
 - Forest Measurements Introduction
 - Sample Plot Measurements and Data Analysis

4:30- 5:30 Grill out Supper (Provided)

Day 2

8:00 a.m. – Depart Boulder Lake ELC for Tours in Duluth

- Tour New Page Facility
 - Balsam and spruce pulpwood utilized for pulp - paper production
- Tour M.L. Hibbard Facility
 - Woody Biomass (forest residues -tips and limbs, mill waste, etc) burned to produce electricity and steam

12:00- 12:30 Lunch (Provided)

12:30-3:30 p.m.

- **Part 4: Forest Regeneration Field Tour**
 - How do we regenerate what we harvested, what do stands that are not harvested regenerate into.
 - Different strategies for cover types.
 - Larger picture - Mosaic of stands at different ages, species composition, etc.

3:30- 4:30 p.m. Workshop Wrap-up