

Toward Renewable Energy & Ecosystem Services



TREES Summit | Tuesday, April 25, 2017 | Brightwater Center



Advanced **Hardwood Biofuels** Northwest

8:00–8:30 Registration

8:30–8:40 Welcome

8:40–10:00 Setting the Stage–Keynote Speakers

- Polluted waters and strategic responses: Ecosystem health and salmon survival–Jessica Lundin, NOAA Northwest Fisheries Science Center Ecotoxicology Program, National Research Council Post Doc
- Transportation and trees: The need for sustainable aviation biofuels–Michael Lakeman, Boeing Commercial Airplanes, Associate Technical Fellow and Regional Director of Biofuel Strategy
- Poplar and willow as a pollutant treatment tool–Lou Licht, President/Founder of Ecolotree Inc.

10:00–10:30 Break

10:30–12:15 Poplar TREES: A Roadmap for the PNW

- AHB: Poplar for renewable energy and products–Rick Gustafson, University of Washington, AHB Principal Investigator
- Toward renewable energy and ecosystem services: A roadmap for the PNW–Patricia Townsend, Washington State University, AHB Extension
- Hybrid poplar as a wastewater management tool–Todd Miller, City of Springfield, Oregon, Environmental Management Analyst
- Improving on-farm ecosystem services with poplar riparian buffers–Julien Fortier, Fiducie de recherche sur la forêt des Cantons-de-l'Est (FRFCE), Research Professional
- Monetizing poplar ecosystem services: Advancing the Pacific Northwest feedstock production industry–Brian Stanton, Greenwood Resources, Inc., Chief Science Officer
- Discussion panel with Rick Gustafson, Todd Miller, Patricia Townsend, Brian Stanton, and Lou Licht

12:15–1:15 Lunch

1:15–2:00 Poplar Application Workshops: (I) Buffers and small scale applications, (II) Large area applications

2:00–2:15 Break

2:15–3:00 Implementation Workshops: (III) Economic considerations, (IV) Policies and regulations

3:00–3:30 Break

3:30–4:00 Building the PNW Roadmap

4:15 Leave for poplar tour at the former Duvall landfill

Presentations will be archived on our website: hardwoodbiofuels.org



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1:15-2:00 Buffers and small scale applications: Buffers created from poplar trees could recycle excess nutrients, breakdown contaminants, block wind, and stabilize soil. Where do you see potential for poplar buffers? What challenges do you foresee? In this workshop, we will discuss the opportunities and barriers with researchers and stakeholders.

Facilitator: Bob Simmons



1:15-2:00 Large area applications: Using poplars for site remediation, biosolid and re-use water application, and landfill recovery could require maintaining multiple acres of trees. What does it take to manage poplar farms, and what benefits can be expected? The workshop will explore the potential and challenges of poplar plantings at this scale.

Facilitator: Brian Stanton



About the Workshops: The morning sessions will explain why poplar plantings could be an innovative and important strategy for tackling critical environmental challenges in the Pacific Northwest. The afternoon is dedicated to learning together. The interactive workshops are your chance to share experiences, ideas, and concerns and to network with stakeholders from a variety of disciplines and organizations.

2:15-3:00 Economics: How do we make money grow on (poplar) trees? Whether planting poplars as a business investment or as a management tool, it is important that the system be economically sustainable. Learn about the costs involved and discuss the value of poplar's ecosystem services.

Facilitator: Lou Licht



2:15-3:00 Policy: Decisions about adopting poplar will involve regulations, whether you're working in agriculture, wastewater treatment, natural resources management, or biofuel production. Share about policies that impact your decisions, policies your organization enforces, or policy changes you'd like to see.

Facilitator: Patricia Townsend

