

4th Annual Forest and Wildlife Research Review

Bohannon Hall, University of Minnesota, Duluth, Minnesota
March 22, 2005

AGENDA

8:00 AM Registration
8:45 AM **Opening Remarks**, Brian Palik
Project Leader Northern Forest Silviculture, North Central Research Station

Wildlife

9:00 AM **Ecology of the Great Gray Owl in Manitoba and adjacent Ontario and Minnesota**
Jim Duncan, Wildlife and Ecosystem Protection Branch, Manitoba Conservation

10:00 AM **Habitat and Population Dynamics of Ruffed Grouse: New Paradigms, Analyses, and Inferences.** Guthrie Zimmerman, Dept of Fisheries, Wildlife and Conservation Biology, University of Minnesota

10:30 AM **BREAK/POSTER SESSION**

Ecosystem Studies

11:00 AM **Challenges to the Great Lakes Ecosystem: Using the Past to Inform the Future**
Deb Swackhamer, Co-Director of the Water Resources Center and Professor, Environmental Health Sciences, University of Minnesota

NOON – LUNCH (*on your own*)

Forest Ecology and Management

1:00 PM **Dispersal limitation in Spruce Budworm Populations of Minnesota and its effect on Balsam Fir Patterns**
Brain Sturtevant, USFS North Central Research Station, Rhinelander, WI

1:30 PM **The Long-Term Soil Productivity Study (LTSP) in Great Lakes Aspen Ecosystems: a summary of the first decade**
Rick Voldseth, USFS North Central Research Station, Grand Rapids, MN

2:00 PM **Stream and Road Interactions on the Superior National Forest**
Jason Butcher, Aquatic Ecologist, Superior National Forest

2:30 PM **BREAK/POSTER SESSION**

3:00 PM **Characterizing the Red Pine Resource in Minnesota**
Dave Lytle, USFS North Central Research Station, Grand Rapids, MN

3:30 PM **Hybrid Poplars a Tree Crop: Developmental History, Current Research, and Practical Uses** Don Riemenschneider, USFS North Central Research Station, Rhinelander, WI

Poster Presentations

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Comprehensive Wildlife Conservation Strategy

Daren Carlson, Minnesota Department of Natural Resources

Extrapolating Plot-level Forest Composition and Structure Data to Landscape Maps in Northeastern Minnesota

Brian R. Miranda¹, Brian R. Sturtevant¹, and Mark A. White²

¹USDA Forest Service North Central Research Station, Forestry Sciences Laboratory, Rhinelander, WI; and ²Natural Resources Research Institute, University of Minnesota

Fire as a Management Tool for Enhancing *Pyrophilous* Beetle Populations in Sub-boreal Coniferous Forests of Minnesota.

K.J.K. Gandhi¹, D.W. Gilmore¹, M. Mielke², and S.J. Seybold³

¹College of Natural Resources, University of Minnesota, ²USFS North Central Research Station, and ³USFS Pacific Southwest Research Station

Human influence on fire disturbance in northern Wisconsin

Brian R. Sturtevant¹, David T. Cleland¹ and Sari C. Saunders²

¹USDA Forest Service North Central Research Station Forestry Sciences Laboratory Rhinelander WI ; ² School of Forestry Michigan Technological University Houghton MI

Influence of Prescribed Fire on Fish and Streamwater Mercury Concentrations

Trent Wickman¹, Jason Butcher¹ and Randy Kolka². ¹USDA Forest Service Superior National Forest and ²USDA Forest Service North Central Research Station

Investigating the Effect of Slash Treatment on Small Mammal and Herpetofauna Populations in Aspen Forests: Research Design

Mike Rentz, Conservation Biology Program, University of Minnesota

Population Trends of Forest Birds on Western Great Lakes National Forests

Jim Lind, Natural Resources Research Institute, University of Minnesota-Duluth

Synthesizing Aquatic, Wetland and Terrestrial Biodiversity Assessments for Conservation Action in the North Shore (Lake Superior) Highlands

Gerdes D. Lawson, Meredith W. Cornnett, and Carmen Converse. Minnesota County Biological Survey, Minnesota Department of Natural Resources, St. Paul, MN (GL, CC); The Nature Conservancy, Duluth, MN (MC).

The Douglas-fir Beetle in Minnesota: Locating an Indigenous Exotic in Northern Forests. Kevin J. Dodds¹, Daniel W. Gilmore¹, and Steven J. Seybold². ¹College of Natural Resources, University of Minnesota, and ²USFS Pacific Southwest Research Station