

UNIVERSITY OF MINNESOTA

Twin Cities Campus

Center for Continuing Education

College of Natural Resources

250 Natural Resources Administration Building

2003 Upper Buford Circle

St. Paul, MN 55108-6146

"Educating Professionals for Tomorrow's Resource Challenges"



2nd Annual FOREST and WILDLIFE RESEARCH REVIEW

January 16, 2002

BOHANNON HALL
University of Minnesota - Duluth

SPONSORS:

University of MN - College of Natural Resources

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▶ Sustainable Forests Education Cooperative

University of MN - Natural Resources Research Institute

USDA Forest Service

▶ Chippewa National Forest

▶ Superior National Forest

Minnesota Forest Resources Council

▶ Research Advisory Committee

WORKSHOP OBJECTIVES

The 2nd Annual Forest and Wildlife Research Review will follow a format similar to the one-day workshop held in January 2002. The workshop is designed for natural resource professionals that work in the forest management arena. Presenters will report on findings of research projects in the forested systems of the upper Great Lakes region.

Research recently completed or currently in progress will be featured. Topics will range from forest wildlife, forest hydrology, and silviculture to forest ecology, forest policy, and human dimensions of forest management.

SPEAKERS

Forest Spatial Analysis: Economic and Ecological Concerns

Jim Manolis, MN Department of Natural Resources/MN Forest Resources Council - St. Paul

George Host, Natural Resources Research Institute, University of MN - Duluth

Howard Hoganson, North Central Research & Outreach Center, College of Natural Resources, University of MN - Grand Rapids

Lee Frelich, Department of Forest Resources, College of Natural Resources, University of MN - St. Paul

Silviculture

Brian Palik, Northern Lake States Silviculture, North Central Research Station, USDA Forest Service - Grand Rapids

Tom Crow, Northern Lake States Silviculture, North Central Research Station, USDA Forest Service - Grand Rapids

Economics, Policy and Management

Alan Ek, Department of Forest Resources, College of Natural Resources, University of MN - St. Paul

Kristen Nelson, Department of Forest Resources, College of Natural Resources, University of MN - St. Paul

Mike Kilgore, Department of Forest Resources, College of Natural Resources, University of MN - St. Paul

Mel Baughman, Department of Forest Resources, College of Natural Resources, University of MN - St. Paul

Forest Watershed Research

Edward Swain, Minnesota Pollution Control Agency

Research Review: Forest and Wildlife January 16, 2003 -U of MN - Duluth REGISTRATION FORM

Name _____

Agency _____

Address _____

City/State/ZipCode _____

Telephone _____

Email _____

If you have any special needs, please let us know and we will try to accommodate them.

Registration Fees include class materials and refreshments.

_____ **\$125.00**

_____ **\$ 55.00** (SFEC Member) *If you are not sure, please check with your employer about your membership status.*

Please make checks payable to: **UNIVERSITY OF MINNESOTA**
We cannot accept credit cards.

Please send registration form and remittance to:

Center for Continuing Education
ATTENTION: Mary Ann Hellman
116 Green Hall, University of Minnesota
1530 Cleveland Avenue North
St. Paul, MN 55108-6112

**This registration form and remittance are your workshop confirmation —
please retain a copy for your records.**

GENERAL WORKSHOP INFORMATION

REGISTRATION FEES include materials and refreshments. Lunch is on your own. We recommend the Kirby Cafe on campus in the Kirby Student Center. They have a salad bar, sandwich bar, a grill menu, dessert bar with ice cream, and beverage center.

Cost: \$125.00 - General
\$ 55.00 - Sustainable Forests Education Cooperative (SFEC) members.
Please check if you are not sure of your SFEC membership.

Registration Deadline: January 10, 2003

Cancellation Policy: Written cancellation must be received 10 days prior to the workshop for a registration fee refund.



Continuing Education Credits:

CFE credits for SAF: 6.0 CFE contact hours in Category 1.

WORKSHOP LOCATION: Room 90 - Bohannon Hall, U of MN - DULUTH

To get to the UMD Campus from I-35: Follow I-35 North to 21st Avenue East exit (Exit #258. Follow 21st Avenue East to Woodland Avenue (top of the hill). Turn right onto Woodland Avenue to St. Marie Street. Take a left on St. Marie Street to University Drive. Turn left onto University Drive to Parking Lots C or G.

To get to the UMD Campus from the Range Cities: Follow Highway 53 (Miller Trunk Highway) to Arrowhead Road (stop light just past Menards). Turn left onto Arrowhead Road to Carver Avenue (approximately 5.25 miles). Turn right at the stop sign on Carver Ave. to St. Marie Street. Turn right onto St. Marie Street to University Drive. Turn left onto University Drive to Parking Lots C or G.

To get to Bohannon Hall from the Parking Lots: From Parking Lot C follow the walkway into Ordean Court and enter at Tweed Museum by the Sir Duluth Statue and follow the signs to Bohannon Hall. From Parking Lot G, enter at Voss-Kovach Hall (VKH) and follow the signs to Bohannon Hall.

WEB SITES for Maps of the campus and the route through Duluth off of I-35

<http://www.d.umn.edu/sss/admissions/discover/visit.html>

http://www.d.umn.edu/maps/big_UMD_map.gif

<http://www.d.umn.edu/maps/buildings.html>

FOR MORE INFORMATION CONTACT:

Center for Continuing Education — College of Natural Resources

Mary Ann Hellman — Voice: 612/624-7222; Fax: 612/625-5212

E-mail: mhellman@umn.edu

Forest Ecology, Wildlife & Management

Glenn Del Giudice, Forest Wildlife Research, Minnesota Department of Natural Resources - Grand Rapids

Tim Jones, Natural Resources Research Institute, University of MN - Duluth

Roy Rich, Department of Forest Resources, College of Natural Resources, University of MN - St. Paul

Andy Holdsworth, Conservation Biology Program, University of MN - St. Paul

JoAnn Hanowski, Natural Resources Research Institute, University of MN - Duluth

Chris Burdett, Conservation Biology Program and Natural Resources Research Institute, University of MN - Duluth

POSTER SESSIONS — Partial List

The Poster Session is still under development. This is a partial list of confirmed posters as we went to print. If you are interested in presenting a poster, please contact Barbara Coffin (bcoffin@umn.edu).

American Indian Perspectives on Natural Resource Management: The Ethnic NewsWatch Database. David Bengston, North Central Research Station, USDA Forest Service - St. Paul

Avoidance by Moose of Terminal Whorls with Implications on Probability of Balsam Fir Saplings Outgrowing the Reach of Moose. Peter Jordan, Jacob Tennis, and Scott Sell, Dept. of Fisheries, Wildlife, & Conservation Biology, U of MN - St. Paul

Great Lakes Environmental Indicators (GLEI). Gerald Niemi, et al., Natural Resources Research Institute, U of MN - Duluth

Marcell Experimental Forest. Randy Kolka, North Central Research Station, USDA Forest Service - Grand Rapids

Minnesota Wildlife Resource Assessment Project (MNRAP). MN DNR Wildlife Resource Assessment Team, Division of Wildlife, MN DNR - Brainerd

Releasing White Pine for Aspen Overstories. Eric Zenner, Dept. of Forest Resources, College of Natural Resources, U of MN - St. Paul

Sustaining Minnesota Forests Through Landscape Planning and Coordination. Chad Skally, et al., Minnesota Forest Resources Council - St. Paul

The Status of Timber Resources of the North Central U.S.: Growth, Harvest, Consumption, and Sustainability. Steve Shifley, North Central Research Station, USDA Forest Service - Columbia, MO.

Wildlife Viewing in Minnesota: Experience, Preferences and Specialization. Ingrid Schneider, Dept. of Forest Resources, College of Natural Resources, U of MN - St. Paul

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Printed on recycled paper.

AGENDA

7:45 AM **REGISTRATION**

8:20 **WELCOME**

❖ Dave Zumeta, Minnesota Forest Resources Council

FOREST SPATIAL ANALYSIS: ECONOMIC AND ECOLOGICAL CONCERNS

8:30 *Forest Spatial Analysis and Modeling Project: What and Why*

❖ Jim Manolis, et al.

8:45 *Changes in Landscape Spatial Patterns From the Pre-settlement Forests to the Present*

❖ George Host and Mark White

9:05 *The Future of Older Forest Interior Space: Integrating Ecological and Economic Objectives with a Management Scheduling Model*

❖ Howard Hoganson, Josh Bixby and Susan Bergman

9:25 *Examining Spatial Impacts of Different Harvest and Management Scenarios Using LANDIS, an Ecological Landscape Model*

❖ Lee Frelich, Tim Jones and Smita Mehta

SILVICULTURE

9:50 *Alternative Approaches to Traditional Silviculture for Northern Hardwoods, Red Pine, and Aspen*

❖ Brian Palik

10:10 *Landscape Scale Implications of Silviculture*

❖ Tom Crow

10:30 **POSTER SESSION — BREAK**

ECONOMICS, POLICY AND MANAGEMENT

11:00 *Changing Forest Age Class Distribution in Minnesota's Forests*

❖ Alan Ek

11:20 *Business or Pleasure: Factors Motivating Northern Minnesota Non-timber Forest Products Harvesting*

❖ Kristen Nelson and David Wilsey

11:40 *Who Bears the Cost of Implementing Minnesota Sustainable Timber Harvesting Guidelines?*

❖ Mike Kilgore and Charlie Blinn

12:00 *Characteristics of Minnesota's Private Forest Landowners*

❖ Mel Baughman, Karen Updegraff and Juan Carlos Cervantes

AGENDA

12:20 - 1:20 LUNCH — On Your Own — *We suggest the Kirby Cafe in the Kirby Student Center*

— VIEW POSTERS IN THE DISPLAY AREA —

FOREST WATERSHED RESEARCH

1:20 *Elevated Mercury Levels in Fish of NE Minnesota Lakes: Understanding the Importance of Forested Watersheds in Contaminant Cycling*

❖ Edward Swain, et al.

FOREST ECOLOGY, WILDLIFE, AND MANAGEMENT

1:45 *Assessing the Effects of Diminishing Conifer Cover on Survival, Movements and Distribution of White-tail Deer*

❖ Glenn Del Giudice

2:05 *Biodiversity Management of Forest Bird Communities in National Forests of Minnesota and Wisconsin*

❖ Tim Jones, et al.

2:25 *Successional Patterns Following the 1999 BWCA Blowdown*

❖ Roy Rich, Lee Frelich and Peter Reich

2:50 **POSTER SESSION — BREAK**

FOREST ECOLOGY, WILDLIFE, AND MANAGEMENT Continued

3:20 *Landscape Patterns of Earthworm Invasion in Northern Hardwood Forests*

❖ Andy Holdsworth, Lee Frelich and Peter Reich

3:40 *Forest Management Considerations for Breeding Birds Near Streams and Vernal Ponds*

❖ JoAnn Hanowski

4:00 *Past and Present Status of Canada Lynx in Minnesota*

❖ Chris Burdett, Gerald Niemi and David Mech

4:20 **CLOSING REMARKS**

❖ Susan Stafford, College of Natural Resources, University of Minnesota

4:30 **ADJOURN**