

# Saturday Classes

## Agents of Change in Our Forests: Insects, Diseases, Invasives, and Climate Change

Jana Albers

Did you ever wonder how forest insects and diseases, invasives, or climate change fit into the big picture of forest growth and development? Learn some of the current and anticipated changes due to these agents and what can be done to mitigate some of them. **3H**

## Agroforestry: An Option for Environmental Economic Productivity in Minnesota

Diomy S. Zamora & Dean Current

Agroforestry, the practice of integrating trees, crops, and/or livestock as one management unit, has the potential for environmental and economic benefits in Minnesota. Learn how agroforestry can be used as a management tool to improve forest health. Discover profits in unlikely places using agroforestry practices. **2K**

## Aspen Management in Minnesota

Ross Korpela

Aspen is one of Minnesota's fastest growing trees and provides quality habitat for some of the state's most cherished wildlife species. Learn the basics of aspen management to improve wildlife habitat as well as produce quality wood products. **3D**

## Assuring Oak Regeneration

Thomas Kroll

Oaks are a significant portion of Minnesota's forest canopy, but the next generation of trees growing beneath the oaks are mostly shade-tolerant maples, basswood, and ironwood. Find out what forest stewardship actions you can take to assure another generation of oaks on your land. **1D**

## Bald Eagles and Ospreys of Minnesota

Pam Perry

The bald eagle has made a dramatic comeback in Minnesota and is no longer on the endangered species list. The osprey, also known as the fish hawk, is a large raptor that can be found around lakes and rivers and nests in dead trees and on artificial structures. Learn more about these fascinating birds and their behaviors, what they eat, where they nest, and whether they compete for nesting areas and food. **4C**

## Basics of Hardwood (Sugar Maple/Basswood/Red Oak) Forest Management

Beth Jacquemain

Learn about basic habitat requirements for northern hardwood forest species including the light, moisture, nutrients, and space needs. Species covered are sugar maple, basswood, red oak, yellow and paper birch, and other common hardwood species. **4D**

## Central Hardwood Management

Brad Gatzlaff and Jon Alness

Join a lively presentation on central hardwoods including tree identification, site conditions, regeneration, pests and diseases, invasives, and management techniques. **5J**

## Close to Nature, Close to Home: Photography

Tony and Pat Peroutky

Our great state, including your backyard, neighborhood, and local community, offers opportunities to experience nature and photography at its finest. See nature photo examples from a "backyard" collection, share a few stories, and hear tips that might improve your nature photography. **4B**

## Conservation Easements 101

Kris Larson

Learn about conservation easements and how they protect the land base from development. Discover how an easement can fit into the estate and financial planning of your woodlands. **1I**

## Considerations for Successful Tree Planting

Rick Klevorn

Discover the many considerations for tree planting including: seedling structure and function, sources of advice, container versus bareroot stock, seed source and its adaptation, stock handling and condition,

planting and tools, and after planting care including protection from animal damage and release. **2H**

## Considering Wildlife in Forest Management Plans


Rick Horton


All forest management decisions, including the decision to perform no management, have ramifications for wild animals. Every action positively impacts some animals, while having no effect, or a negative effect on others. Learn the impacts of various forest management decisions on wildlife, with examples. **6C**

## Cook County Firewise-A Local Approach to Hazard Mitigation

Jim Wiinanen, Paul Nelson, and Jayne Fingerman-Johnson

Listen to the events surrounding the Ham Lake fire and how the Cook County Firewise committee responded. Illustrated will be mitigation projects that helped improve structure survivability in the wildland urban interface. **2L**



The Biofore Company 


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UPM – The Biofore Company  
UPM leads the integration of bio and forest industries into a new, sustainable and innovation-driven future.

# Saturday Class Schedule

8:30 - 9:25	Supercharge Your Woods: Intermediate <b>1A</b>	Phenology <b>1B</b>	Forests and Wolves: Why They Belong Together <b>1C</b>	Assuring Oak Regeneration <b>1D</b>	Stop Aquatic Hitchhikers <b>1E</b>	Tick-Borne Diseases in Minnesota <b>1F</b>
9:45 - 10:40	Digging in the Dirt <b>2A</b>	Nontimber Forest Resources <b>2B</b>	Owls of Minnesota <b>2C</b>	Mixed Forest Management <b>2D</b>	Shoreline Improvement for Fish and Wildlife <b>2E</b>	Whitetailed Deer Management <b>2F</b>
11:00 - 11:55	Harvesting and Selling Timber - Open Forum <b>3A</b>	Forestry Practice: Cost-Share Programs <b>3B</b>	Landscaping for Wildlife for Landowners <b>3C</b>	Aspen Management <b>3D</b>	Gypsy Moths: Implications For You <b>3E</b>	Minnesota's Endangered Threatened Species <b>3F</b>
11:55 - 12:45	Lunch	Lunch	Lunch	Lunch	Lunch	Lunch
12:45 - 1:40	Tree Planting and Seedling Care - Open Forum <b>4A</b>	Close to Nature, Close to Home: Photography <b>4B</b>	Bald Eagles and Ospreys of Minnesota <b>4C</b>	Basics of Hardwood Management <b>4D</b>	Invasive Species in Your Woodlands <b>4E</b>	Snakes of Minnesota <b>4F</b>
2:00 - 2:55	Treehouse of Horrors <b>5A</b>	Maintaining Your Woodland Home or Cabin <b>5B</b>	Landscaping for Wildlife for Landowners <b>5C</b>	Growing and Marketing Black Walnut <b>5D</b>	Emerald Ash Borer-- A Minnesota Update <b>5E</b>	Riparian Buffers for Trout Habitat <b>5F</b>
3:15 - 4:10	Minnesota Woodlands and Climate Change <b>6A</b>	Let's Get Pumped! (Septic Systems) <b>6B</b>	Considering Wildlife in Management <b>6C</b>	Norway Pine Plantations: Thinning Required <b>6D</b>	Managing Woodland Ash <b>6E</b>	Deer: Survival of the Fittest <b>6F</b>

## Deer: Survival of the Fittest

Barry Sampson

Deer in northern Minnesota migrate to wintering yards when deep snow restricts their ability to feed and avoid predators. Deer collars were used to study home range sizes and movements between seasonal ranges and wintering yards. Wolves were also collared to estimate pack territory sizes at mid winter. Learn about this study and its results. **6F**

## Digging in the Dirt

Dan Hanson

Discover how to find soil information on the web's soil survey site. Use it to learn the soil types on your property, their characteristics, and how they can influence forest management decisions. **2A**

## Emerald Ash Borer - A Minnesota Update

Mark Abrahamson

Discover the latest information on where emerald ash borers are known to occur in Minnesota and what actions are being taken to limit their impacts and spread. **5E**

## Enhancing Habitat for Brushland Wildlife

Jodie Provost

Define brushlands and their location, then discover wildlife species that inhabit them, how to enhance and restore the habitat, and programs that can provide assistance. **5H**

## Enhancing Habitat for Forest Wildlife

Jodie Provost

Do you enjoy wildlife on your land or wonder if your property has potential to provide even better habitat for forest wildlife? Learn how to manage your forest types to maximize their habitat potential, the wildlife that benefits, and programs that can assist you along the way. **1H**

## Family Forest Owner Toolbox

Kathryn Fernholz

Hear an overview of a new "toolbox" prepared by the Great Lakes Forest Alliance. The toolbox addresses diverse market opportunities for woodland owners, ranging from traditional timber and nontimber products to ecosystem services. **2G**

## Family Forestland and Minnesota Property Tax Programs

Mike Reichenbach

Landowners interested in keeping forestland in

forests may be eligible for a property tax program to protect the land's natural character while managing for forestry purposes. It may also reduce the cost of owning wooded property. Learn about the Sustainable Forest Incentive Act, the 2c Managed Forest Land Tax Classification, and Green Acres/Rural Preserve. **1G and 4G**

## Forestry Practice Implementation - Cost-Share Assistance Programs

Gary Michael

Learn the intricacies of the alphabet soup of cost-share assistance programs used with forest management practices. This includes the programs CRP, EQIP, WHIP, and others as well as the agencies that handle these programs. **3B**

## Forests and Wolves: Why They Belong Together

Jerritt Johnson

Discover how forest lands are important for the long term survival of wolf populations and the impact wolves have on the habitat in which they live. **1C**

## Get More Than Pulpwood and Logs: Nontimber Forest Products

Steve Vongroven

The number of nontimber products in your woods may surprise you. See hands-on examples, plus information on potential income opportunities and how-to harvest techniques. There will be time for questions and hopefully, some answers. **6K**

## Growing and Marketing Black Walnut In Minnesota

Kevin O'Brien

Learn the economic value of growing, marketing, and selling walnut. Also included will be best management practices, suitable sites and range, and emerging issues in managing walnut trees, including thousand cankers disease. **5D**

## Gypsy Moths: Implications For You

Susan Burks

With the advent of the emerald ash borer in Minnesota, gypsy moths have taken a back seat. The Slow-the-Spread program has been effectively slowing gypsy moths movement westward. The front of infestation continues to move closer to Minnesota. Are we prepared? What can we expect and what should we be doing? Hear an update on the status of gypsy moths in the state and how landowners can mitigate future potential impacts. **3E**

## Hardwood Direct Seeding

Valiree Green

An alternative to planting seedlings for hardwood regeneration is direct seeding. Learn how tree seed can establish a more natural forest. **3G**

## Harvesting and Selling Timber - Open Forum

Eli Sagor

If the thought of another slideshow is driving you nuts, this session is for you! This open forum focuses on harvesting and selling timber, including planning the harvest and how timber sales work. Your questions will guide the discussion. We expect to have forestry professionals and loggers on hand, but you'll also hear real-world experiences of family woodland owners. The forum is hosted by the folks behind the website MyMinnesotaWoods. **3A**

## Invasive Species in Your Woodlands

Susan Burks

Learn how invasive species are capable of damaging woodlands, how to spot them, where they are, what you can do to prevent and/or control them, and tips in managing woodlands to minimize their impacts. Plants covered include: buckthorn, exotic honeysuckle, Japanese barberry, oriental bittersweet, and garlic mustard. Other exotics include: emerald ash borer, gypsy moth, thousand canker disease of walnut and Annosus root rot. **4E**

## Lake Superior Agates

Scott Wolfer

Learn how agates are formed, the different types, and where to hunt for them. See some of the best and biggest Lakers that have been found, including the new record 33.5 lb glacial Lake Superior Agate found in Michigan in 2010. **3K**

## Landscaping for Wildlife for Landowners

Carrol Henderson

When plantings are designed according to the food and cover benefits provided by different species, it's possible to have wildlife cover year round. Learn what trees and shrubs provide excellent food and habitat value with emphasis on summer, fall, and winter species, including plants that are not attractive as deer forage. **3C and 5C**

## Let's Get Pumped! (Septic Systems)

Shirley Nordrum

A failing septic system is costly to repair and is a serious health risk to your family, pets, and the environment. Learn how to properly care for your system, everyday maintenance tips to protect it, how septic systems work, and how often to pump. **6B**

Family Forestland Property Taxes <b>1G</b>	Enhancing Habitat for Forest Wildlife <b>1H</b>	Conservation Easements <b>1I</b>	Who's the Best Forester For Me <b>1J</b>	Storms, Shipwrecks, Lighthouse <b>1K</b>	Wildfire Risk: Protect Your Home <b>1L</b>
Family Forest Owner Toolbox <b>2G</b>	Considerations for Successful Tree Planting <b>2H</b>	Saving Ash and Other Seeds <b>2I</b>	Timber Sales <b>2J</b>	Agroforestry <b>2K</b>	Cook County Firewise—A Local Approach <b>2L</b>
Hardwood Direct Seeding <b>3G</b>	Agents of Change: Insects, Diseases, Invasives <b>3H</b>	Tax Tips for Selling Timber and Forest Land <b>3I</b>	Wood Markets Outlook <b>3J</b>	Lake Superior Agates <b>3K</b>	Wildfire Risk: How to Protect Your Home <b>3L</b>
<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>
Family Forestland Property Taxes <b>4G</b>	Tree Suitability in Native Habitats <b>4H</b>	Recreational Trail Design and Maintenance <b>4I</b>	Timber Sales <b>4J</b>	Woody Biomass for Energy <b>4K</b>	Wildfires: Landscaping to Protect Property <b>4L</b>
Minnesota Women's Woodland Network <b>5G</b>	Enhancing Habitat for Brushland Wildlife <b>5H</b>	Prescribed Burning in Grasslands <b>5I</b>	Central Hardwood Management <b>5J</b>	Tree Farm Today <b>5K</b>	Shorelands and Fire Risk <b>5L</b>
Native Prairie Restoration and Management <b>6G</b>	Wild Orchids of Minnesota <b>6H</b>	Recreational Trail Design and Maintenance <b>6I</b>	Who's the Best Forester For Me <b>6J</b>	Get More Than Pulpwood and Logs <b>6K</b>	Wildfires: Landscaping to Protect Property <b>6L</b>

## Maintaining Your Woodland Home or Cabin

Richard Stone

Maintaining your woodland home or cabin for future generations means understanding options and setting priorities. Combustion safety, windows, walls, roofs, foundations, insulation, and energy use are all connected and impact the way your house functions as a system. Learn considerations as you make decisions that affect the quality of life for your family and the useful life of your home or cabin. **5B**

## Managing Woodland Ash in the Emerald Ash Borer Era

Angela Gupta

Emerald ash borer (EAB) is virtually certain to spread across Minnesota, devastating our native ash population. Many family woodland owners are uncertain how best to manage their woods to prepare for EAB. Learn results of a 2011 study to identify broadly supported recommendations for family woodland owners to care for and manage their ash. **6E**

## Minnesota Women's Woodland Network: Helping Women Learn About Trees, Nature, and Caring for the Land

Julie Miedtke

Minnesota Women's Woodland Network creates supportive and informal small group learning opportunities on a variety of topics to help women make good decisions for their land. Meet members of the network and learn about the birth of the program, our adventures, field trips, and all we've learned. **5G**

## Minnesota Woodlands and Climate Change

Eli Sagor

Hear reliable information about how increased storm frequency and other changes are affecting Minnesota's woodlands now and in the future. Hear the changes already observed through instrumental records, what we know and don't know from models of future conditions, and practical steps that every landowner can take to keep their woods healthy, resilient, and productive for many years to come. **6A**

## Minnesota's Endangered, Threatened and Special Concern Species

Bruce Carlson

The Natural Heritage Information System (NHIS) provides data on Minnesota's rare plants and

features, animals, and native plant communities. The NHIS is continually updated, is the most complete source of data in Minnesota, and fosters better understanding and conservation of these features. Hear an overview of the system, its content, sources of existing and new data, how to request data, its interpretation, and applying the data to forest projects and decision-making. **3F**

## Mixed Forest Management

Cheryl Adams

Forests occur naturally as single species but more commonly in combination with other kinds of trees. Over the past 10 years, Blandin has been developing ways to manage mixed species stands and introducing species diversity in a stand. Learn what works and what doesn't. Combinations of trees range from aspen, birch, spruce, fir, pine; or pine, spruce, fir. **2D**

## Native Prairie Restoration and Management

Randy Schindle

Find out the benefits of prairies, how to establish and manage native grasses and forbs, and the proper placement of prairies in the landscape. **6G**

## Nontimber Forest Resources and the Minnesota Harvester's Handbook

Dave Wilsey & Julie Miedtke

Be part of developing and improving a new resource for forest landowners and users. The Minnesota Harvester Handbook is a work-in-progress that provides information about forest products and harvesting considerations, such as: biology, ecology, policy, and markets. View the handbook and discuss ways it can be used and improved to better meet landowners' needs. **2B**

## Norway Pine Plantations: Thinning Required

Brian Bignall

Hear about Norway pine plantation management from precommercial thinning through commercial operations and the considerations to ponder before choosing management options. **6D**

## Owls of Minnesota

Jeff Hines

Come learn about the 12 species of owls you can find in Minnesota. Discover what makes owls unique, interesting, and masters of the night. **2C**

## Phenology

John Latimer

Discuss phenology as a way of observing nature: when do certain events happen and how is this timing related to climate? **1B**

## Prescribed Burning in Grasslands

John Kelly and Jim Edgar

Discover the steps a landowner can take to complete a small prescribed burn in grasslands in Minnesota. Topics covered include: clothing, equipment, communications, weather factors and tactics for doing a safe burn. **5I**

## Recreational Trail Design and Maintenance

Melvin Baughman

Discover the basic knowledge necessary to design, construct, and maintain sustainable trails for hiking, horseback riding, bicycling, cross-country skiing, snowmobiling, off-highway motorcycling, and all terrain vehicles. Sustainable trails require minimal maintenance because their design and materials hold up to intensive recreational use and severe weather conditions. **4I and 6I**

## Riparian Forest Buffers for Trout Habitat Improvement

Gary Wyatt

Discover riparian practices and programs that can improve water and aquatic quality of Minnesota's more than 450 miles of state designated trout streams. Some streams are experiencing warmer temperatures, affecting trout habitat and populations. Learn how trees in a riparian buffer can improve habitat by moderating stream temperatures, providing woody debris, improving water quality, and stabilizing stream banks. **5F**

## Saving Ash and Other Seeds

Andy David

Black ash seed is plentiful but may not be in the future. Learn how to save ash and other tree seeds for future plantings and future generations. **2I**

## Shorelands and Fire Risk: Problems When Goals Collide

Pegg Julson

Natural landscaping on water edges benefits wildlife and decreases lawn maintenance chores. However, these choices may create an increase in wildfire threats. Learn how to apply techniques that are mutually beneficial — improving shoreline habitat while reducing fire risk. **5L**

## Shoreline Improvement for Fish and Wildlife Habitat

John Hiebert

Minnesota's shorelines are being developed at a rapid rate and have significantly fewer trees, shrubs, and shoreline and aquatic vegetation than undeveloped ones. The impact of this loss reduces the amount of habitat available for fish and wildlife and reduces water quality. Learn the specific changes to shorelines from development, the consequences for fish and wildlife, and actions you can take on your shoreline to address these impacts. **2E**

## Snakes of Minnesota

Jaime Edwards

Hear about the different species of snakes native to Minnesota, how to identify them, and the habitat where they occur. **4F**

## Stop Aquatic Hitchhikers in Your Neck of the Woods

Doug Jensen

Minnesota is battling many harmful aquatic invasive species including zebra mussels, Eurasian watermilfoil, purple loosestrife, spiny waterfleas, and rusty crayfish. These non-native species impact everyone. Knowing what is in your backyard or neighborhood is just the start. Learn what you can do to help stop aquatic hitchhikers and reduce impacts on our waters and your property. **1E**

## Storms, Shipwrecks, and the Building of a Lighthouse on Minnesota's North Shore

Lee Radzak

A November gale in 1905 caused the loss or damage of 29 ships along the North Shore and western Lake Superior. Due to that storm Split Rock Lighthouse was built. The ferocity of the lake, the shipwrecks, and the phenomenal effort of building a light station on remote Superior shoreline will be covered. **1K**

## Supercharge Your Woods: Intermediate Treatments to Make the Best of Your Woods Better

Eli Sagor

Intermediate stand treatments are activities designed to make the best of your woods better through a wide variety of "partial harvests." They can produce short-term and long-term revenue from woodlands and improve woodland health, reduce disease, and increase stand resilience. Learn about the types of intermediate treatments and practical steps landowners can take to improve their woods either on their own or with professional assistance. **1A**

## Tax Tips for Selling Timber and Forest Land

Mark Ricci

Join a discussion about income tax consequences and the considerations of selling land and cutting standing timber, including capital gain treatment and IRC Section 631(b) election to treat the cutting of timber as a sale. **3I**

## Tick-Borne Diseases in Minnesota

Amy D. Westbrook

In northeastern Minnesota, individuals are potentially at higher risk of contracting a tick-borne disease than in other parts of the state. Learn the signs and symptoms of the three most common tick-borne diseases, disease types in Minnesota, and the

transmission cycle of tick-borne diseases and how to prevent infection. **1F**

## Timber Sales

Paul Dickson

Have you ever thought about cutting your timber but are not sure how to go about it? Find out how timber sales work, what to expect, and how a forester can guide you through the process. **2J and 4J**

## Tree Farm Today

Mary Perala

Learn what the 70-year-old American Tree Farm System® (ATFS) has to offer its network of over 95,000 woodland owners, located in 44 states, sustainably managing 26 million acres of forestland. As the largest and oldest sustainable family woodland system in America, ATFS has enhanced the quality of woodlands by giving forest owners the tools they need to keep their forests healthy and productive. **5K**

## Treehouse of Horrors

Don Mueller

Take a horrifying tour of the frightful things people do to trees in their own backyards. By examining cadavers and actual crime-scene photos you will see how even the best of intentions can go terribly wrong when people plant trees for shade and shelter. You'll learn tips and tricks to keep the trees in your home landscape safe and healthy for years to come. **5A**

## Tree Planting and Seedling Care - Open Forum

Eli Sagor

If the thought of another slideshow is driving you nuts, this session is for you! This open forum covers tree planting, seedling care, and early stand management. Your questions will guide the discussion. Forestry professionals and nursery managers will be on hand, but you'll also hear real-world experiences of woodland owners. The forum is hosted by the folks behind the website MyMinnesotaWoods. **4A**

## Tree Suitability in Native Habitats

John Almendinger

Picking the right trees to plant or manage depends upon the kind of habitat your land offers. Field guides help landowners recognize native habitats and make tree selections where we expect: minimal silvicultural investment, good yield, natural regeneration, disease and pest resistance, and resilience to climate change. Also covered is the science behind tree suitability, use of field guides, and how to access advice on the DNR website. **4H**

## Whitetail Deer Private Land Management

Joe Cannella

Hear recommendations for managing your property to benefit deer yet control undesirable damage. **2F**

## Who's the Best Forester for Me?

Andrew Arends

How do you select a forester to help manage your property? Wondering about the difference between a consulting forester and a Soil and Water Conservation District forester? You're not alone. This presentation will help you make an informed choice when choosing a forester. **1J and 6J**

## Wildfire Risk: How to Protect Your Home

BJ Glesener

Homes located near forest areas are vulnerable to wildfire damage or loss. Types of structural components affect the amount of damage sustained. The area around the home can also contribute to fire risk. Learn how to measure your home's fire risk and determine where improvements are needed. **1L and 3L**

## Wildfires: Landscaping to Protect Your Property

Marty Kasinskas

Learn how to rate your home for fire prone hazards and discover plants and landscaping techniques that improve the chances of your home and property surviving a wildfire. **4L and 6L**

## Wild Orchids of Minnesota

Welby Smith

Learn surprising facts as well as tips about identification on some of the nearly 50 species of native orchids growing wild in Minnesota. Each has a unique life history and a role to play in the ecology of Minnesota's forests and prairies. **6H**

## Wood Markets Outlook

Don Deckard

Hear how global to local market conditions, events, and trends including macro-economy, product market dynamics, stumpage markets, and land values affect wood prices. Or, are we on our way back to \$40 per cord for aspen stumpage? **3J**

## Woody Biomass for Energy and Ecosystem Services

Diomy Zamora and Dean Current

The use of biomass for energy in Minnesota is escalating. Short rotation woody crops (SRWCs) could become a major source of biomass. SRWCs can provide a number of ecosystem services, particularly in areas that may be marginal for annual crop production. Learn how biomass use for energy could also achieve ecosystem services such as wildlife habitat management, water quality improvements, and carbon sequestration. **4K**

### For more information contact:

Mimi Barzen  
218-327-4119  
mimi.barzen@state.mn.us or

Stephanie Kessler  
218-326-1130  
mfwconference@yahoo.com

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