

30
YEARS
1991-2020



**TREE
SCHOOL
CLACKAMAS**

**Saturday
March 21,
2020**

**Clackamas
Community College
19600 Molalla Ave.
Oregon City, Oregon**



Registration Opens January 28 at 10:00AM

NEW CLASSES!

- * Fire Pond Management & Wetland Restoration
- * Ecological Forest Management
- * Intro to Small Woodland Management
- * So You Want To Plant Some Trees
- * Managing Understory Vegetation
- * Beginner Woodland Owner Q & A
- * Your Trees, Your Lumber, Your House



Presented by
Oregon State University
Extension Service
Clackamas County

In cooperation with:

Forests Forever, Inc.
Clackamas County
Farm Forestry Association
Clackamas Community College

bit.ly/Clacktree



73 CLASSES FOR YOU TO CHOOSE FROM PLUS YOUTH CLASSES!

TREE SCHOOL STAFF



Glenn Ahrens is your OSU Extension Forester for Clackamas, Marion, and Hood River Counties. Glenn began working as a forester in Oregon in

1984 and he has been an OSU Extension Forester since 2001. He has been teaching at Clackamas Tree School since 2000. This will be Glenn's seventh year working as the leader of the Tree School team.



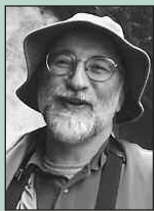
Amanda Brenner is your Tree School Coordinator and supports Forestry and Natural Resources educational programs for residents of Clackamas County.

Amanda came to OSU Extension in August 2019 from Colorado where she studied Environmental Science and Forestry. She has an expertise in wild-fire ecology and preparedness education. She loves her two rescue dogs and spending as much time as she can in the forest and near the ocean.



Jean Bremer is your Tree School registrar. She works with exhibitors and advertisers and organizes packets. She has been with Extension since 2010 supporting both

Master Gardener and Forestry Programs. Her passion outside of Extension is playing on a local dart league and organizing an annual charity Cruise-In.



Rob Guttridge is our volunteer who manages the Exhibit Hall at Tree School. He oversees the volunteers for exhibitor table setup and take-down and ensures

exhibitors have what they need in the Randall Hall gym. He owns forestland with his family that is sustainably managed with the American Tree Farm certification, and came to the very first Tree School in 1991.

Many thanks to **Cheryl Keithan** for planning support and mailing list management and **Linda Butts** for editing the Tree School catalog!

Minten Graphics has designed and produced the Tree School registration catalogs since 1997.



**Oregon State University
Extension Service**

Extension Service Clackamas County

200 Warner-Milne Road, Oregon City, Oregon 97045
T 503-655-8631 | F 503-655-8636 | bit.ly/Clacktree

30th Clackamas Tree School

For this 30th annual Clackamas Tree School, I want to make special recognition of Mike Bondi for his outstanding leadership as Extension Forester (1985-2011) and Regional Administrator (2011-2018) for OSU Extension in Clackamas County. Since the first Tree School held at Estacada High School in 1991, Mike has led the effort to develop Tree School into a great collaborative education event for woodland owners throughout the region. Tree School, along with our new Clackamas Extension Center (under construction in 2020) are an incredible resource and will be a lasting legacy of Mike's leadership after he retires later this year.



In this class catalog for Tree School Clackamas, we offer 73 classes covering key topics to support successful management of your woodlands: forest management, tools and techniques, wildfire preparedness, marketing and business, forest health, weed management, wildlife habitat, forest fungi, and more. Please review the full range of class offerings and register for classes as soon as you can.

Registration opens at 10:00am, Tuesday, January 28. Many classes fill in the first few days of registration. Register online, in-person, or by mail. See the registration information on page 36-37. If your top choice classes are full, please join the waitlist and register for backup options. Note that we adjust future class offerings based on the demand that we see.

Tree School is a collaborative effort led by the OSU Clackamas County Extension team with a lot of help from our forestry community partners and volunteers. We are very thankful for the dedicated efforts of all our volunteers and collaborators. Classes at Tree School complement the year-long programs from OSU Extension and our collaborators in natural resources education. Look for programs on your preferred topics throughout the year. See the program calendar on the back page of this catalog or check our website <https://extension.oregonstate.edu/clackamas>

I hope to see you on Saturday, March 21 at Tree School 2020.

Glenn R. Ahrens, OSU Extension Forester, Clackamas, Marion, & Hood River Counties

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This publication will be made available in an accessible alternative format upon request. Accommodation requests related to a disability should be made by March 9, 2020 to Jean Bremer, 503-655-8631 or jean.bremer@oregonstate.edu.*

Agricultural Sciences & Natural Resources, Family and Community Health, 4-H Youth, Forestry and Natural Resources, Extension Sea Grant, Open Campus, and Outdoor School programs. Oregon State University, United States Department of Agriculture, and Oregon counties cooperating. The Extension Service offers its programs and material to all people.

OSU General Guidelines for Event Planning Accessibility: https://accessibility.oregonstate.edu/sites/accessibility.oregonstate.edu/files/documents/accessibility_guidelines_event_planning.pdf

TREE SCHOOL CLASS SELECTION GUIDE

Please read the class descriptions before registering.

* NEW CLASS

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7B	Free Online Forest Planning	13
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13B	How to Succeed in Succession Planning	15
17B	Planning a Timber Cruise and Using It	17
13C	Estate Planning Solutions (repeat)	26
20C	Your Property Taxes & Your Forestland	27
11D	Forest Carbon for the Family Forest Owner	30
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10A	Goods from the Woods	9
15B	Christmas Tree Research Update	16
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14A	Oregon's Forest Practice Laws	10
21B	Fruit Tree Pruning—Steps to Success	19
7D	Tree & Shrub Identification	28
14D	Forest Stewardship & Conservation Incentives	30
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— PHOTO CREDITS —

COVER PHOTOS: 3-Year Old Planted Seedling by Glenn Ahrens; Smokey Bear and the Gang by Amy Cox; Field Trip at Hopkins Demonstration Forest and Fog in the Forest by Amanda Brenner

BACK COVER PHOTOS: Thinning Multi Aged Stands by Amanda Brenner and Red Alder Plantation Study by Glenn Ahrens

EVENT SCHEDULE

Welcome!

Tree School opens at 7:15am in the lobby of Randall Hall. Come here first to pick up your class packet that includes your schedule and classroom assignments. Join us for coffee, refreshments, and snacks before you head to class. There will also be ice water available. The reception area is open all day to accommodate those arriving later in the day for classes.

Class Block A

Classes begin at 8:15am. Go to assigned classrooms.

Exhibit Area

Open from 9:30am to 4:00pm in Randall Hall gymnasium.

Morning Break

Located in the Exhibit Area from 9:45-10:30am. Enjoy beverages and snacks while visiting our exhibitors.

Class Block B

Classes begin at 10:30am. Go to assigned classrooms.

Lunch

Lunch is included in your registration fee and will be available in the lobby of Randall Hall at noon. Seating is available in the Exhibit Area or outdoors, weather permitting. The Exhibit Area is open throughout the lunch break.

Menu: Lasagna Buffet—

Meat Lasagna,
Vegetable
Lasagna,
GF Eggplant
Lasagna, Garlic
Bread, Caesar
Salad, Broccoli Salad

Lunch catered by:



Class Block C

Classes begin at 1:30pm. Go to assigned classrooms.

Afternoon Break

Located in the Exhibit Area from 3:00-3:45pm. Enjoy beverages and Special 30th Anniversary cake and cupcakes while visiting our exhibitors. Don't miss the Forests Forever raffle!

Class Block D

Classes begin at 3:45pm. Go to assigned classrooms.

EARLY MORNING CLASSES

Class Block A & A/B—Beginning at 8:15am

1A/B

Kids in the Woods: Tree School for Youth (ages 6-13)

8:15am-Noon

ALL DAY CLASS
LIMITED TO 15.
INCLUDES
OUTDOOR



ACTIVITIES: PLEASE DRESS FOR THE WEATHER. Our children are the next generation of woodland stewards. Are we preparing them adequately to take on that incredible challenge? Enroll the kids in your life in this fun, interactive, and valuable day-long experience while you attend general Tree School classes close-by! They will learn about every-day products we use that come from our woodlands; animal, tree, and plant identification; fire prevention; history of our Pacific Northwest forests; and how every one of us can play a role in sustaining our forests. The day will include a variety of hands-on activities with engaging discussions and useful crafts to take home. **Registration fee is \$25. Also, please bring \$10 per child (cash or check) to pay Ilene Waldorf for art and construction materials. Registrar will contact families with further instructions.**

Instructors: Amy Cox, Monte and Ilene Waldorf, Master Woodland Managers and Forest Landowners, Molalla, OR.

2A/B

Fire Pond Management & Wetland Habitat Restoration

8:15am-Noon



FIELD CLASS: DRESS FOR THE WEATHER. This field session will showcase wetland habitat restoration and fire pond maintenance at Hopkins Demonstration Forest, a private working demonstration forest, run by Forests Forever, Inc. (FFI). While working on fire ponds in 2012, FFI identified the need and opportunity to restore and enhance existing wetland habitat for the benefit of wetland associated wildlife, in particular native amphibians. In 2014, FFI contacted Oregon Dept. of Fish and Wildlife for technical assistance and developed a restoration project. This class will cover restoration project activities from start to end, highlighting collaborative efforts between multiple partners that made it a success and educational asset to the local community. Topics covered will include project engineering and design, securing of grant funds, wetland permitting, pre- and post-restoration amphibian surveys, and revegetation of the site. You will tour the site while discussing lessons learned and the benefits of wetlands to multiple wildlife species. You will learn about native amphibians and how to identify their egg masses.

Instructors: Susan Barnes, Regional Conservation Biologist—West Region, Oregon Department of Fish and Wildlife, Clackamas, OR; John Runyon, Principal/ Senior Watershed Ecologist, Cascade Environmental Group, LCC, Portland, OR.



Oregon Tree Farm System

A family forest
landowner
partnership

For information:
<http://www.otfs.org>
503-362-0242

187 High St. NE,
Suite 208, Salem, OR

3A/B

Into the Woods:

An Active Exploration of Local Wood & Woods

8:15am-Noon

FIELD CLASS: DRESS FOR THE WEATHER.

Join us for an inspiring, challenging, active, and fun immersion into the wild world of our remarkable forests, the native trees that grow in them, the wood they provide, and their connections to your life and work. Working both in the classroom and during a 45-minute hike at Hopkins Forest, you'll learn about:

- The unique and surprising traits and needs of more than twelve native tree species—including the roles they play in the forests' ecology;
- The distinctive characteristics of the wood that comes from these trees and the roles each play in our daily lives;
- The impact your tree and wood-related choices have—and can have—on forests, near and far;
- Ways that you and fellow forest own-



ers can strengthen your connections to local forests and have a positive impact on them.

Instructors: Michael Ahr, Forest Conservationist, West Multnomah Soil & Water Conservation District, Portland, OR; Peter Hayes, Family Forester, Director, Build Local Alliance, Portland, OR.

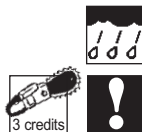
4A/B

Stand Density Management

8:15am-Noon

FIELD CLASS: DRESS FOR THE WEATHER.

Managing stand density is important for maintaining healthy trees, improving wildlife habitat, and maximizing timber production. You will learn how tree size (diameter) and stand density are interrelated. This class will show you how to use a Density Management Table to determine the optimal number of trees to leave after thinning. Thinning meth-



ods will also be discussed. **Please bring a calculator and a hardhat, if you have one, to this class.** This class will start off in the classroom but we will go to the field for the bulk of class.

Instructor: Stephen Fitzgerald, Director of College Research Forests, Forests & Extension Silviculture Specialist, Oregon State University, Corvallis, OR.

KEY



Field Classes



New Classes



Pesticide Recertification Credit



AOL Pro-Logger Credit



Special Instructions

Please read the class description carefully!



Computer Class



Master Gardener Credit

Pesticide Recertification Credits Requested

Oregon Department of Agriculture pesticide recertification credits have been requested for the following classes at Tree School 2020. Look for sign up sheets in the following classes:

- 9A Insects in the Trees: Pest or Non-Pest?
- 19A Non-chemical Weed Control
- 22A Forest Weed ID
- 9B See the Forest for the Bees
- 19B Herbaceous Weed Control
- 19C Woody Brush Control
- 22C Invasive Weeds Threatening Your Woodland

AOL Pro-Logger Credit

Associated Oregon Loggers is offering Pro-Logger credits for 70 classes at Tree School 2020. Loggers who are members of AOL can request a certification of attendance for classes identified with the AOL Pro-Logger icon (above). The Pro-Logger program provides a system to acknowledge the professional integrity of the logging industry and assures that contractor skills and knowledge are up-to-date.



“Oregon Small Woodlands Association (OSWA) is an influential and proactive organization united in its efforts to represent the diverse objectives of family forestland owners who practice and promote good forestland stewardship”

To join OSWA or get more information

OSWA

187 High Street NE, Suite 208, Salem, OR 97301
503-588-1813

www.oswa.org

Woody Weeds

of Clackamas County

Reduce wildfire fuel by controlling woody weeds.

Learn to identify and control plants that will become invasive if introduced into your forest.

Download this guide at <https://bit.ly/322OpnO>

Questions?

Contact us at 503-210-6000 or weeds@conservationdistrict.org

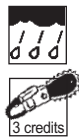


CLACKAMAS SOIL AND WATER

CONSERVATION
DISTRICT

Good dirt. Clean water.

5A/B Operating Chainsaws Safely for Women



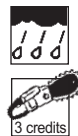
8:15am-Noon

Participants must be 18 years old to take a hands-on chainsaw class. **FIELD CLASS: DRESS FOR THE WEATHER.** This class will cover identification and the basics of chainsaw, guide bar, chain, and drive sprocket maintenance for the beginning and intermediate chainsaw user. The course will teach chain sharpening techniques and basic chainsaw maintenance in a hands-on classroom setting. The class will also cover personal protection equipment (PPE) use. Students will be instructed on hand-held cutting methods and given the opportunity to make practice cuts with a small gas-powered saw, large gas-powered saw, and battery-powered saw equipped with PowerSharp® Cutting System. Tree felling is not covered in this course. All equipment

will be provided.

Instructors: Alison Heynderickx, Cheryl Steinke, Rebecca Somerville, and Kathy Holter, Technical Customer Services, Blount International, Inc., Milwaukie, OR.

6A/B Operating Chainsaws Safely for Men



8:15am-Noon

Participants must be 18 years old to take a hands-on chainsaw class. **FIELD CLASS: DRESS FOR THE WEATHER.** This class will cover identification and the basics of chainsaw, guide bar, saw chain, and drive sprocket maintenance for the beginning and intermediate chainsaw user. The course will teach chain sharpening techniques and basic chainsaw maintenance in a hands-on classroom setting. The class will also cover personal protection equipment (PPE) use.

Students will be instructed on hand-held cutting methods and given the opportunity to make practice cuts with a small gas-powered saw, large gas-powered saw, and battery-powered saw with a PowerSharp® Cutting System. Tree felling is not covered in this course. All equipment will be provided.

Instructors: Gary Guerber, Glenn Lovell, and Vic Grossi, Senior Technical Services Technicians, Blount International, Inc., Milwaukie, OR.

TEST YOUR WELL WATER

For free nitrates screening, bring ½ cup of untreated well water in a clean, water-tight, labeled container. The test takes 5 to 10 minutes if the Domestic Well Safety Program's (DWSP) resource table is not busy. You may either wait for your results or you may pick up the results in-between classes. Educators will be available during Tree School to answer domestic well related questions: maintenance, testing, and health effects. For additional information on DWSP, please visit: www.healthoregon.org/wells.



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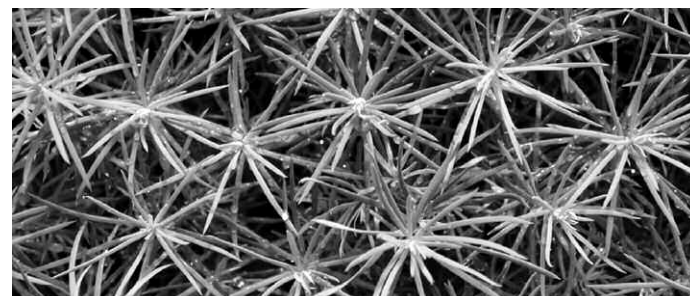
February 8, 2020

8:00am to 12 noon

Rochester, Washington

March 7, 2020

8:00am to 12 noon



Availability at our website: www.myseedlings.com

7A Mapping Your Farm



8:15-9:45am

THIS CLASS REQUIRES COMPUTER SKILLS. Christmas tree growers and other managers often have questions about how to develop farm maps and determine unit sizes. In this computer class, we will use Google Earth and hand-held Garmin GPS tools to develop solutions for questions like: How large is the unit you want to plant? How many trees should you order? How can I develop an easy aerial map for my farm? **Participants should have at least some familiarity with Google Earth and GPS uses.**

Instructor: Chal Landgren, Extension Christmas Tree Specialist and Professor, Oregon State University Extension Service, Aurora, OR.

8A Be Bear Aware!



8:15-9:45am

Bears are fascinating animals and important parts of the ecological communities in which they occur. Overlap between human communities and large animal habitat is continuing to increase here in Oregon. Conflicts with bears can escalate to result in damage to human belongings and death to the bears involved. However, we can do much to avoid creating conflicts; we will discuss best practices promoted by the Get Bear Smart Society of Canada that helped Whistler, B.C. become a leading Bear Smart community.

Instructor: Dana Sanchez, Associate Professor and Extension Wildlife Specialist, Oregon State University, Corvallis, OR.

9A Insects in the Trees: Pest or Non-Pest?



8:15-9:45am

This class will focus on the identification, biology and management of pest and non-pest insects found on trees in Oregon. Insects covered will include bark beetles as well as wood boring, defoliating and sapsucking insects. Great emphasis will be placed on identifying insects that should be managed for versus non-pest species that are commonly found on the landscape. **Students are encouraged to bring specimens and samples for ID.** ODA pesticide credits have been applied for.

Instructor: Christine Buhl, Forest Entomologist, Oregon Department of Forestry, Salem, OR.

CLACKAMAS COUNTY PROUD SUPPORTER OF TREE SCHOOL



Clackamas County is dedicated to honoring, utilizing, promoting and investing in our natural resources



www.clackamas.us

10A

Goods from the Woods

8:15-9:45am

Conifer boughs, firewood, truffles, cones, handcrafts, paying visitors, essential oils, and charcoal: just a few of the potential products that can be money-makers obtained from your woodland! Come and talk about how to market and collaborate to achieve extra income.

Instructor: Neil Schroeder, Past President, Oregon Woodland Cooperative, Scholls, OR.



and free to grow. Congratulations! But now what? Ironically, many young conifer stands (age 5-15) have too many trees for their own good, and will become much too crowded before they are big enough for a thinning harvest. Overcrowding stresses trees and may limit your options for developing forest diversity or other options. This class specifically addresses young stands age 15 or younger and will help you assess the need for thinning, the right number of trees for your situation, and ways to accomplish a young stand thinning when needed. **Participants should plan to complete a short reading assignment before class to be prepared for in-class activities and discussion.**

Instructor: Brad Withrow-Robinson, Forestry and Natural Resources Extension Agent, Oregon State University, Corvallis, OR.

12A

Basic Forest Measurement Tools

8:15-9:45am

FIELD CLASS: DRESS FOR THE WEATHER. Knowing the density and sizes of your trees is key to figuring out how best to care for them and monitor their growth. Learn how to measure tree diameter, tree height, tree volume, and the number of trees per acre. We'll do hands-on practice with a variety of different measurement tools. Height and diameter measurements will be taken using a clinometer, a diameter tape, and the OSU Woodland Stick. **You may bring your own tools if you own them, otherwise equipment will be available for the class.**

Instructor: Lauren Grand, Extension Forester & Natural Resource Agent, Oregon State University, Lane County, Eugene, OR.



11A

Spacing & Thinning in Young Stands

8:15-9:45am

So let's say you have planted and successfully established a new stand of trees and they are above the weeds



ALL KINDS OF HELP FOR YOU AND YOUR FORESTLAND.

You have many sources of assistance available to help you as forest landowners: expert technical advice, classes, grants, person-to-person counsel from peers and many other resources.

KnowYourForest.org features videos, publications, assistance opportunities, an interactive map and more. It's your one-stop site to find the assistance you need.

KnowYourForest.org



13A Timber Income Tax Basics



8:15-9:45am

This class is a must for anyone having recent forest income, or planning for future income from their forestland. Many landowners are unaware of the special provisions in the Internal Revenue Code that pertain to forestland and income generated from their land. This session will help you improve the records you keep on your forestland as well as minimize the taxes that you pay for income generated by your forest. Come prepared with your questions to get some answers for your situation.

Instructor: Tamara Cushing, Starker Chair of Private and Family Forestry, Assistant Professor & Extension Specialist, Forest Economics, Management & Policy, Oregon State University, Corvallis, OR.

14A Oregon Forest Protection Laws



8:15-9:45am

This class will make it easy to see how Oregon's Forest Protection Laws affect you. In 2018 the Oregon Forest Resources Institute released the third edition of *Oregon Forest Protection Laws: An Illustrated Manual*. The update was due to changes in the Oregon Forest Practice Act and Rules including: addition of Type SSBT streams and associated riparian rules, changing of the Industrial Fire Precaution Level requirements, delisting of the bald eagle, development of the E-Notification system and other minor changes from past issues. This class will update you on the laws, discuss the changes in the book and generally orient you to the rules. **Qualifies for two OPL-FP credits.**

Instructors: Mike Cloughesy, Director of Forestry, Oregon Forest Resources Institute, Portland, OR; Joe Goldsby, Stewardship Forester, Oregon Department of Forestry, Molalla, OR.

15A Biology & Management of Oregon White Oak



8:15-9:45am

Oregonians love their oak trees. This course will review the biology and management of Oregon white oak including regeneration, thinning in oak stands, removing conifers from around or above oaks, and predicting growth. **Class participants will be invited to send in their oak questions ahead of time so the instructor can address as many as possible.** Copies of several oak publications will be provided to participants.

Instructor: Connie Harrington, Research Forester, Pacific Northwest Research Station, Olympia, WA.

16A Here's to Beginnings: An Introduction to Small Woodland Management



8:15-9:45am

Are you a beginner woodland manager/owner? Need some help getting started? Looking for resources and tips to help you plan and manage your property? Join us for an introduction to the world of woodland management, including developing a vision for your property, taking stock of the natural resources on your land, and identifying a work plan for the future. We will also provide participants with information and resources on management and assistance programs available in our region. Consider pairing this session with *We Are All in This Together: A Beginner Woodland Owner Question and Answer Panel* to share your questions and gain further insight from other

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Douglas-Fir Whitewoods Cedar

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FOR MORE INFORMATION OR TO ARRANGE
A MEETING, PLEASE CONTACT:

Jeanne Shuttleworth
541.517.9707

Kevin Merritt
541.954.2230



woodland owners who have a few years of experience under their belts.

Instructors: *Brandy Saffell, Conservation Specialist, Tualatin Soil and Water Conservation District, Hillsboro, OR; Dan Stark, Forestry and Natural Resources Extension Agent, Oregon State University, Astoria, OR.*

17A Estate Planning Solutions for Woodland Owners



8:15-9:45am

Making plans for your estate is no easy task. It is even more challenging for woodland owners with land and timber. Many folks are overwhelmed when facing these tough decisions; recent surveys show an estimated 60% of Americans do not have an estate plan. With ever-changing laws, inflated property prices, and complex family dynamics, it is hard to even know where to begin. While estate planning may seem like a long hard road, it is important to have something in place sooner rather than later. This session is designed to help you implement a concise estate plan in short order that will make a lasting impact.

Instructor: *Dave Lambert, Woodland Owner, Advisor, Columbia Wealth Advisors, LLC, Scappoose, OR.*

18A Chainsaw Use, Appreciation, & Maintenance



8:15-9:45am

This class will cover safe and effective chainsaw use, from timber felling to limbing, bucking, sharpening and all of the peripheral skills to make this a productive pleasure, all in one class. Please take this class if you have lots of hours on a chainsaw—or not! We will go through pretty much everything you may want or need to know, with lots of examples and visual cues. This is an indoor class where we won't be starting

the saws, so it can be fun for the whole family. The instructor wishes he could have taken this class all those years ago and saved 40 years of searching the world for these important skills.

Instructor: *Mark Havel, Owner, Havel Designs, Willamina, OR.*

19A Non-Chemical Weed Control: Biological, Manual & Mechanical



8:15-9:45am

Weed control is one of the keys to successful tree growth and many woodland owners spend significant time battling invasive weeds to maintain native ecology in their forest. This class will focus on control methods that don't require use of herbicides. Participants will learn about biological controls that are being used on common weeds in

the Northwest and how they might help your land. We'll also cover principles and practices of vegetation management including manual, mechanical, grazing, and other non-chemical techniques. There will be an emphasis on planning projects at a scale that fits with non-chemical management, such as smaller forest restoration projects, and we'll also discuss timing of management practices that will most effectively control vegetation. Examples will feature important native and invasive weeds that compete for site resources and hinder desirable vegetation. ODA pesticide certification credits have been applied for.

Instructors: *Joel Price, Biological Control Entomologist, Oregon Department of Agriculture, Salem, OR; Michelle Delepine, Invasive Species Program Coordinator, West Multnomah Soil & Water Conservation District, Portland, OR.*

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Drawings will be held during the Tree School afternoon break time (3:00-3:45pm)

All dollars raised at the RAFFLE support Forest Forever's Education Consortium—funding education programs, outreach and facilities at the Hopkins Demonstration Forest, including our full-time educator.

For more info, contact Executive Director Ken Everett at 503-655-5524

20A Fire, Fuels, & Hazard Reduction



8:15-9:45am

Wildfire is an ever-increasing threat to homes and forest property, even on the “wet” west side of Oregon and the Willamette Valley. In this class you will learn about fire behavior 101 basics, techniques for assessing and reducing fuels on your property and around your home, and where to get help with fuels reduction. This class will also cover fire-safe home construction techniques and building materials, and fire-wise landscaping in the zone immediately around your home.

Instructor: Levi Hopkins, Stewardship Forester, Oregon Department of Forestry, Lyons, OR

21A GPS Basics for Land Navigation & Feature Location Mapping



8:15-9:45am

FIELD CLASS: DRESS FOR THE WEATHER. Modern GPS (Global Positioning System) navigation systems are excellent tools to find your way or record feature locations on your property. However, as with any device, they have their limitations. If you are thinking about purchasing a GPS unit or have one and are not sure about its potential uses, benefits, and limitations, then this course is for you. Learn the basic principles behind how a GPS works to find your location, factors affecting its reliability, types of features you can collect, and get some hands-on instruction with a recreation-grade unit.

Instructor: Peter Matzka, Extension Forestry Educator, Oregon State University, Oregon City, OR.

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April, 2020

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22A Forest Weed ID



8:15-9:45am

This class will help participants learn to identify weeds common to small woodland and Christmas tree farms in western Oregon. This course will cover plant biology and integrated weed management as it relates to controlling several key weeds. Herbicide and non-herbicide control options for some specific weeds will be discussed, including targeted discussions on bull and Canada thistles and tansy ragwort. **ODA pesticide certification credits have been applied for.**

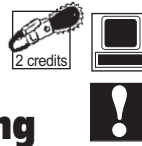
Instructor: Chip Bubl, Agriculture Extension Agent and County Leader, Oregon State University, St. Helens, OR.

BE PREPARED
Read Class Descriptions carefully

LATE MORNING CLASSES

Class Block B—Beginning at 10:30am

7B Free Online Forestry Planning



10:30am-Noon

THIS CLASS REQUIRES COMPUTER SKILLS. This class will offer a hands-on introduction to Forest Planner, a free web application to help with stewardship planning in Oregon and Washington. You will learn how to map your property, divide it into management units, describe your forest types, and create and compare management scenarios customized to your property. Come find out the economic trade-offs between different harvest strategies, which management practices reduce fire or pest risks, how much carbon your forest can store, or just to make maps of your property you can use in your Forest Management Plan. **If you have it, bring your information on**

tree species, diameter classes, and trees per acre for the forest types on your property. This is also a great opportunity to get the next generation involved in forest planning (teenage and older encouraged).

Instructors: David Diaz, Director of Forestry Technology & Analytics; Sara Loreno, Natural Resources Data Scientist, Ecotrust, Portland, OR.



A BALANCED APPROACH

- TIMBER MANAGEMENT
- ALTERNATIVES TO CLEARCUTTING
- FOREST PLANNING AND RESTORATION



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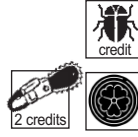


10:30am-Noon

Coyotes have continued to expand their range in Oregon and thus human vs. coyote issues have been multiplying. Understanding the coyote's ecology is critical to learning how to manage both the animal and ourselves in order to minimize conflicts. Come learn about these fascinating animals and their management in our neighborhoods on the urban/wildland overlap.

Instructor: Dana Sanchez, Associate Professor and Extension Wildlife Specialist, Oregon State University, Corvallis, OR.

9B See the Forest for the Bees



10:30am-Noon

Oregon is home to over 500 species of bees, which are responsible for pollinating many of our staple crops and plants in rural and urban landscapes. Often overlooked are bees present in Oregon forests. Who and where are they? What can we do to protect them? In this class we'll talk about how Oregon is tackling enhancing pollinator health and habitat, and what you can do on your forestland. **ODA pest credits have been applied for.**

Instructor: Christine Buhl, Forest Entomologist, Oregon Department of Forestry, Salem, OR.

10B Diamonds under the Douglas-fir



10:30am-Noon

This class is an introduction to the wild and cultivated truffles in Western Oregon. Truffles are found underground near suitable host trees. The famous Oregon truffles are common beneath Douglas-fir, and are harvested profitably throughout Western Oregon. They occur naturally in 15-30 year-old stands planted on former pasture or farm land, usually in small woodlots. Thanks to a recent technological breakthrough, the legendary European truffles are now also routinely cultivated beneath hazelnut and oak trees on every continent. Learn how you can locate, recognize, and harvest these gems and participate in the emerging Oregon truffle industry.

Instructor: Charles Lefevre, Ph.D., President, New World Truffieres, and Co-founder, Oregon Truffle Festival, Eugene, OR.

11B Managing to Keep Your Forest Healthy



10:30am-Noon

Is something wrong with your trees? How do you keep your forest healthy? How might climate change affect your trees? When something goes wrong people tend to look for specific causal agents such as bark beetles or root disease. But tree health problems often arise from factors such as climate, soils, exposure, and/or changes as trees grow older, perhaps interacting with insects or diseases. Attend this class to learn about diagnostic methods and tools to help you understand and observe possible changes in forest health and threats. After decades of diagnosing tree problems for clientele, your local Extension Forester has much to share to help you assess and manage your forest and tree health into the future.

A stylized white logo of a mountain range with three peaks, set against a dark grey background.

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Instructor: Glenn Ahrens, Forestry and Natural Resources Extension Agent, Oregon State University, Oregon City, OR.

12B Forest Management Plan Writing for Tree Farmers



10:30am-Noon

A forest management plan will help you communicate and formalize your goals, objectives, and actions on your forestland. Management plans are designed to engage you with the responsibilities and opportunities of owning forestland. This class will go over the benefits of developing a plan, introduce the numerous resources to assist with plan development, and clarify why plans are important to state and federal natural resource agencies. Come learn about the Oregon's Forest Management Planning System, a suite of guidelines, templates and supporting tools endorsed by all major natural resource agencies and key forest certification programs including the Oregon Tree Farm System. This class is ideal for landowners who do not yet have a forest management plan for their property.

Instructors: Lauren Grand, Extension Forester & Natural Resource Agent, Oregon State University, Lane County, Eugene, OR; Jim Cathcart, District Manager, West Multnomah Soil and Water Conservation District, Portland, OR; Ryan Gordon, Family Forestland Coordinator, Oregon Department of Forestry, Salem, OR.

13B How to Succeed in Succession Planning: The Human Side of Estate Planning



10:30am-Noon

When it comes to estate planning across generations, the human side of

the equation is often more difficult than the numbers. This class will motivate you to address key challenges facing family businesses and help you maintain family ties to your land across generations. Learn about effective tools you can use to decide the future of your land and land-based businesses.

Instructor: Tamara Cushing, Starker Chair of Private and Family Forestry, Assistant Professor & Extension Specialist, Forest Economics, Management & Policy, Oregon State University, Corvallis, OR.

14B The Secret Life of Birds



10:30am-Noon

What is so special about birds? How

do they fly? Why do they migrate? How can they build nests without tools? When they sing, what are they saying? In this fun, informative, and interactive presentation, you will learn to interpret what secrets the birds around you are sharing so you can enjoy and understand any bird's behavior wherever you are. We focus on birds that might inhabit inland and riparian forests: woodpeckers, owls, chickadees, and more.

Instructor: Marilyn Ellis, Certified Interpretive Guide, Oregon Master Naturalist, Tryon Creek State Natural Area, Portland, OR.

REGISTER ONLINE
Highly encouraged for
best class selection!

Marilyn Ellis

Title: Wildlife Educator
Company: Self-employed
Responsibilities: Wildlife Education Program Development and Presentation



Marilyn is an Oregon Master Naturalist and a Certified Interpretive Guide with more than 25 years of experience as a wildlife educator and licensed wildlife rehabilitator. Marilyn has a BA in English and Anthropology along with several certifications from the International Wildlife Rehabilitation Council (IWRC) including dangerous animal handling, wound management and fluid administration.

Marilyn spent her summers at her grandparent's 2,000 acre ranch in California where she fed baby animals, caught tadpoles in the creek, and rescued king snakes from the road! She credits her grandmother who was an amateur naturalist/rehabber and her experiences on the ranch to discovering her passion for all things wildlife.

She began in 1993 at Lindsay Wildlife Museum in Walnut Creek, California as a wildlife rehabilitator, wildlife educator, raptor handler, hospital species manager, trainer and supervisor, and museum docent. Everything but taxidermy, which she learned later. The first time she walked into Lindsay Wildlife Museum, she saw a woman with a live barn owl on one gloved hand and a microphone in the other. She knew immediately that that was what she wanted to do.

This will be Marilyn's 4th year teaching at Tree School, where she will once again share her knowledge of raptors and local birds. She enjoys teaching Tree School and she looks forward to coming back each year. *"I am always very impressed and encouraged by the tremendous love and dedication to conservation that Woodland Owners demonstrate."* —Marilyn Ellis

Before coming to us, Marilyn was also an exotic animal keeper for 2 private clients in California and taught wildlife classes for the Contra Costa Water District and for Native Bird Connections. She even spent 3 years living in Japan.

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15B Christmas Tree Research Update

10:30am-Noon

Get the latest updates on current research relevant to Christmas tree farms in this session. Topics include leader control and tree trimming, new insecticide trials, and what you can do to coax noble fir seedlings to survive these hot dry summers.

Instructor: Chal Landgren, Extension Christmas Tree Specialist and Professor, Oregon State University, Aurora, OR.

**TEST YOUR
WELL WATER**
See page 7 for info

16B We Are All in This Together: A Beginning Woodland Owner Question & Answer Panel



10:30am-Noon

Recommended for beginning woodland owners, this class will be a question and answer forum with a panel of experienced small woodland owners familiar with the challenges of figuring out woodland management as a beginner. Panel members will give a short introduction to their management journey and answer questions from participants. Consider pairing this session with 16A *Here's to Beginnings: An Introduction to Small Woodland Management* to gain a foundation in woodland management



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and develop questions for the panel members.

Instructors: Brandy Saffell, Conservation Specialist, Tualatin Soil and Water Conservation District, Hillsboro, OR; Dan Stark, Forestry and Natural Resources Extension Agent, Oregon State University, Astoria, OR.

17B Planning a Timber Cruise & Using It



10:30am-Noon

Thinking about getting a timber cruise for your woodland? A timber cruise or inventory helps you “know your forest” and its potential value and productivity. It provides the basis for stewardship planning to meet your objectives for years to come. This class will take you through these important steps: knowing when you need a cruise, establishing scope and purpose, finding a qualified professional timber cruiser and contracting for the job, or learning if you can do it yourself. Then you will learn how to interpret and use the cruise data. Bring your questions and get some good answers about this important forest management tool.

Instructor: Jim Kiser, Senior Instructor, College of Forestry, Oregon State University, Corvallis, OR.



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18B Your Trees, Your Lumber, Your House



10:30am-Noon

All the things that go into building from your own lumber, including the specifics of grading and building inspections. Starting with your timber and logging, to sawmilling and sawmills, and including detailed specifics of different types and brands of mills and how to get your usable materials list. This is not a project you should take lightly as that usually ends in failure and waste of all that went into it, but, if you are up to a wonderful experience and a wonderful home, c'mon in!

Instructor: Mark Havel, Owner, Havel Designs, Willamina, OR.

19B Herbaceous Weed Control in Your Forest Using Herbicides



10:30am-Noon

Knowing what herbicide to use and when to apply it is the key to effective grass and weed control. Common prescriptions for controlling herbaceous weed communities that compete with planted Douglas-fir and other conifers will be discussed. Handout materials will detail products and rate effectiveness. Basic information on laws, application methods, and herbicide label comprehension will also be presented. ODA pesticide certification credits have been applied for.

Instructor: Bruce Kelpsas, Retired Vegetation Management Specialist, Corvallis, OR.

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Jack Dent, The Haven

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- College scholarships available to member-sponsored applicants.

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Sign-up at the CCFFA booth in the Exhibitor area at Tree School.

Contact Jim Schreiber, CCFFA Membership Chair at 503-632-3978.

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20B

Ecological Forest Management Options for Small Woodland Owners



10:30am-Noon

Most small woodland owners manage their forests for a wide range of benefits, including wildlife habitat, aesthetics, long-term income generation, and even carbon sequestration. This class will provide you with strategies for evaluating your forest, and help you understand the trade-offs inherent to managing for multiple values. Further, management options for optimizing both ecological and economic values will be proposed for forests ranging from newly established plantations to older stand types.

Instructor: Kirk Hanson, Director of Forestry, Northwest Natural Resource Group, Seattle, WA.

21B

Fruit Tree Pruning: Steps to Success




10:30am-Noon

Fruit tree pruning needs can be broken down into a series of decisions and subsequent actions related to what we see on each tree. This class will teach you the markers to look for that tell you what the tree needs, whether that is re-structuring, dead-wood removal, thinning, end weight reduction, and/or fruiting spur development. We'll cover order of operations, tools, and tricks and tips to make this annual activity go more smoothly. Plenty of time will be available for troubleshooting Q&A and sharing fruit tree success stories.

Instructor: Nick Bezzerides, Permaculture Design Consultant and Owner, Sense of Place Permaculture, LLC, Clackamas, OR.

CLASSES CONTINUED ON PAGE 22
Use the Class Matrix on pages 20-21 to plan your Tree School schedule.


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TREE SCHOOL 2020: MORNING CLASSES

PLEASE READ ALL CLASS DESCRIPTIONS CAREFULLY (pages 4-33).

* NEW CLASS

7:15 8:15 9:45 10:30 12:00

BLOCK A 8:15-9:45am		BLOCK B 10:30am-NOON	
YOUTH			
1A/B All day—Kids in the Woods: Tree School for Youth <i>Parent drop-off at 8:00am. Must be 6-13 years old to attend. Class size limited to 15</i>			
2A/B * Fire Pond Management & Wetland Restoration <i>Class size limited to 20.</i>			
3A/B Into the Woods: An Active Exploration of Local Wood and Woods <i>Class size limited to 20.</i>			
4A/B Stand Density Management <i>Class size limited to 20.</i>			
5A/B Operating Chainsaws Safely for Women <i>Must be 18 years old to attend. Class size limited to 20.</i>			
6A/B Operating Chainsaws Safely for Men <i>Must be 18 years old to attend. Class size limited to 20.</i>			
7A Mapping Your Farm <i>Class size limited to 20.</i>	Beverages & Snacks: Available at break time 9:45-10:30 am Randall Hall Exhibit Area		7B FREE Online Forest Planning <i>Class size limited to 20.</i>
8A Be Bear Aware!			8B Coyotes: Wild & Free
9A Insects in the Trees: Pest or Non-Pest?			9B See the Forest for the Bees
10A Goods From the Woods			10B Diamonds Under the Douglas-fir
11A Spacing & Thinning in Young Stands <i>Class size limited to 30.</i>			11B Managing to Keep Your Forest Healthy
12A Basic Forest Measurement Tools <i>Class size limited to 20.</i>			12B Forest Management Plan Writing
13A Timber Income Tax Basics			13B How to Succeed in Succession Planning
14A Oregon Forest Protection Laws			14B Secret Life of Birds
15A Biology & Management of Oregon White Oak			15B Christmas Tree Research Update
16A * Intro to Small Woodland Management			16B * Beginners Small Woodland Owner Q & A
17A Estate Planning Solutions for Woodland Owners			17B Planning a Timber Cruise & Using It
18A Chainsaw Use, Appreciation, & Maintenance			18B * Your Trees, Your Lumber, Your House
19A Non-Chemical Weed Control			19B Herbaceous Weed Control
20A Fire, Fuels, & Hazard Reduction			20B * Ecological Forest Management Options
21A GPS Basics for Land Navigation			21B Fruit Tree Pruning: Steps to Success
22A Forest Weed ID			

CLASS PACKET PICK-UP Begins at 7:15 am— Open all day — Randall Hall Lobby
Beverages & Snacks available before class

Registration Opens Tuesday, January 28 @ 10:00 AM

Exhibit Area: Open from 9:30 am until 4:00 pm; Randall Hall—Gymnasium

TREE SCHOOL 2020: AFTERNOON CLASSES

Some classes have special instructions and/or prerequisites you must be aware of before signing up and attending class.

12:00	1:30	3:00	3:45	5:15
		BLOCK C 1:30-3:00pm		BLOCK D 3:45-5:15pm
YOUTH				
		1C/D All Day—Kids in the Woods: Tree School for Youth <i>Parent pick-up at 5:15pm. Continued from 1A/B.</i>		
		2C/D Intro to Small-Scale Milling <i>Class size limited to 20.</i>		
		3C/D Maximizing Log Value by Making Better Decisions <i>Class size limited to 20.</i>		
		4C/D Multi-Aged Forest Management <i>Class size limited to 20.</i>		
		5C/D Logging with Farm Tractors Using Synthetic Rope <i>Class size limited to 20.</i>		
		6C Making Shiitake Happen		6D Making Shiitake Happen
		7C Oregon's Diverse Flora & Fauna		7D Tree & Shrub Identification
		8C Creating Habitat for Wildlife & Beneficial Insects		8D Support Your Local Raptors
		9C Living With Your Domestic Well		9D Wildfire in Your Forest Future
		10C Commercial Truffle Cultivation		10D * Managing Understory Vegetation
		11C Hand Tools Can Be the Best Tools <i>Class size limited to 20.</i>		11D Forest Carbon for Family Forest Owners
		12C Finding Frogs & Noticing Newts		12D Permaculture & Your Carbon Footprint
		13C Estate Planning Solutions		13D Protect Yourself Through Proper Contracts
		14C Pruning Timber & Landscape Trees		14D Forest Stewardship & Conservation Incentives
		15C Western Redcedar		15D Red Alder Management
		16C * So You Want to Plant Some Trees		16D Words of Wisdom from the Woods
		17C Restoring & Maintaining Riparian Areas: Beginners		17D Restoring & Maintaining Riparian Areas: Intermediate
		18C Small-Scale Harvesting		18D Small-Scale Harvesting
		19C Woody Brush Control Using Herbicides		19D Root & Butt Decays in Conifers
		20C Your Property Taxes		20D Your Property Taxes
		21C Small Engine Care & Maintenance <i>Class size limited to 20.</i>		21D Bats: Why Should We Care <i>Class size limited to 20.</i>
		22C Invasive Weeds Threatening Your Woodland		

LUNCH: 12:00-1:30 pm Randall Hall Lobby (bring your lunch ticket)
EXHIBIT AREA OPEN—Randall Hall

Beverages & Snacks: Available at break time 3:00-3:45 pm
Forests Forever raffle in Randall Hall Exhibit Area

Register online at: bit.ly/Clacktree

EARLY AFTERNOON CLASSES

Class Block C & C/D—Beginning at 1:30pm

1C/D

Kids in the Woods: Tree School for Youth (ages 6-13) continued

1:30-5:15pm

**INCLUDES OUTDOOR ACTIVITIES:
PLEASE DRESS FOR THE WEATHER.**

Our children are the next generation of woodland stewards. Are we preparing them adequately to take on that incredible challenge? Enroll the kids in your life in this fun, interactive, and valuable day-long experience while you attend general Tree School classes close-by! They will learn about every-day products we use that come from our woodlands; animal, tree, and plant identification; fire prevention; history of our Pacific Northwest forests; and how every one of us can play a role in sustaining our forests. The day will continue with a variety of hands-on activities with engaging discussions and useful crafts to take home.

Instructors: Amy Cox, Monte and



Ilene Waldorf, Master Woodland Managers and Forest Landowners, Molalla, OR.

2C/D

Intro to Small-Scale Milling

1:30-5:15pm

FIELD CLASS: DRESS FOR THE WEATHER. Are you a new landowner or someone considering investing in a small mill for your property? This class is a great introduction to basic hands-on milling techniques and things to consider before buying. Includes demonstration and discussion at the Hopkins Demonstration Forest with their small band saw mill, which has helped provide materials for several recent projects including their new on-site restroom. The focus will be on creating dimensional softwood lumber and hardwood slabs. In addition, log transport, processing and handling will be covered along with proper lumber storage, air drying, and finishing options.



Instructor: Peter Matzka, Extension Forest Educator, Oregon State University, Oregon City, OR.

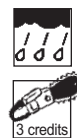
3C/D

Maximizing Log Value by Making Better Decisions

1:30-5:15pm

FIELD CLASS: DRESS FOR THE WEATHER. This class begins with a review of west-side log scaling and grading rules with an emphasis on marginal or borderline logs. You know—the tough decisions. Should I sell this as a saw log or pulp? What about export vs. domestic log sorts? Learn appropriate conversion factors for comparing board feet, weight, and cubic foot scale prices. The class will visit RSG's log sort yard at their Liberal mill to observe how logs are graded and sorted.

Instructors: Travis Smith, WA Area Manager, Yamhill Scaling and Grading, Forest Grove, OR; John Schmit, Timber Buyer, RSG Forest Products, Molalla, OR.



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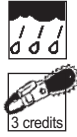


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Read Class Descriptions
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4C/D Multi-Aged Forest Management

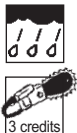


1:30-5:15pm

FIELD CLASS: DRESS FOR THE WEATHER. Much of Oregon's forests are harvested by clearcutting followed by replanting an even-aged forest. Although this is a preferred method for regenerating Douglas-fir, many landowners are also interested in ways to manage and maintain forests with trees of different ages. This class will cover silvicultural methods for managing and regenerating multi-aged forests. The instructor will discuss lessons-learned from case studies in both western and eastern Oregon. The field session at Hopkins Demonstration Forest will feature results of 25 years of management in the uneven-aged demonstration area.

Instructor: Stephen Fitzgerald, Director of the College of Forestry Research Forests & Extension Silviculture Specialist, Oregon State University, Corvallis, OR.

5C/D Logging with Farm Tractors Using Synthetic Rope



1:30-5:15pm

FIELD CLASS: DRESS FOR THE WEATHER. This class will demonstrate the application of a farm tractor, Farmi winch, and synthetic rope for small scale harvesting on your woodland. Under the right conditions, farm tractors are quite useful for those who like to do their own operations on their forestlands. The use of light-weight synthetic rope in place of steel cable is a twist, with some advantages for woodland owners. Attend this class to learn the basics on safe and effective use of farm tractors for harvesting small timber, yarding logs with the tractor, and techniques for rigging synthetic rope compared with traditional steel wire rope (cable).

Instructors: Steve Pilkerton, Forest Engineer and Operations Manager, OSU Research Forests, Corvallis, OR; **Jack Lowers,** Woodland Owner, Scio, OR; **Ryan Poteet,** Woodland Owner, Beaver Creek, OR.

6C Making Shiitake Happen



1:30-3:00pm

Shiitake mushrooms have been claimed to be the world's healthiest food and are the second most harvested mushroom worldwide. In this workshop you will not only learn about the ecology of these mushrooms but also how to grow these tasty edibles in your own woodland! In this hands-on class you will inoculate a log with mushroom spores for at-home production and cultivation.

Instructor: Tiffany Hopkins, Program Coordinator for Master Woodland Manager and Women Owning Woodlands Network, Oregon State University, Corvallis, OR.

7C Supporting Oregon's Diverse Flora & Fauna on Your Forestland



1:30-3:00pm

Many studies show that forest woodland owners enjoy seeing and knowing about the diverse array of flora (plants) and fauna (animals) that call forests their home. If you are one of them, this class is designed to expose you to the tools and resources available to explore what wildlife may be using your land and how you can help them. Besides featuring the more common species found within forests, the class will also feature tools such as the online Oregon Biodiversity Map Viewer that can be used to understand the importance of your land in supporting specific rare, declining, and sensitive wildlife species and habitats. Come join us to learn about how cool this can be—it is totally within your control!

Instructor: Jim Cathcart, District Manager, West Multnomah Soil & Water Conservation District, Portland, OR.



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Chrissy Lucas

Chrissy grew up in northern California and Oregon, finishing at Lakeview H.S. in southeast Oregon. With roots in the family ranch, getting her degree in Animal Science at OSU was a natural path. Having a strong interest in teaching, she worked on a Master's degree in Ag education, including 5 months teaching high school Ag, wood shop, and welding. Student work experience with the Sea Grant Program brought her into Extension, setting her up to take a job as an assistant to OSU Small Farms and Forestry programs for Benton County Extension. With water being so important on small farms, moving on to lead OSU's well-water program was a good fit. Her current responsibilities include ground water quality education for rural landowners, supported by the counties of Linn, Benton, Marion, and Polk. She also co-coordinates the statewide Small Farms Conference and produces the statewide Small Farms newsletter and website.



Chrissy pursued adult education with encouragement from colleagues who were impressed by her skills. At first, teaching **Living With Your Domestic Well (9C)** at Tree School was a bit overwhelming, with hundreds of water samples and so many "high-quality questions" from woodland owners. Now, she says, Extension education events such as Tree School are really her calling: "It is a feel-good career" where you can teach people and see immediate positive impact. In addition to teaching the well water class, the well water table in the Tree School Exhibit Hall keeps her extremely busy with Q&A and water testing. Her key take-home message for people at Tree School is, "You don't really know your water until you get it tested!"

Along with her passion for teaching about agriculture and water, Chrissy is an ardent baseball fan. She follows the OSU Beavers and the Corvallis H.S. Spartans (her son was a ball player all through high school), not to mention the Dodgers, Giants, and Red Sox.

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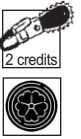
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8C Creating Habitat for Wildlife & Beneficial Insects



1:30-3:00pm

Learn how to bring a variety of beneficial animals to your property by increasing your native plant habitat. Whether you are interested in birds, bats, slug-eating beetles, salamanders, or other wildlife, this workshop will address the best plants and strategies for your project and property. Native plants and natural landscaping are not only beautiful and easy to maintain, but they are the best way to attract and sustain the insects and animals you want to invite to your property. Bring questions and ideas to discuss. **ODA pest credits have been applied for.**

Instructor: Jon Wagner, Conservation Specialist, East Multnomah Soil and Water Conservation District, Portland, OR.

9C Living With Your Domestic Well



1:30-3:00pm

When you live in the country or just outside city limits there is a lot behind turning the faucet on and filling your glass of water. Learn the basics of protecting your water quality, testing (including requirements for Oregon's Real Estate Transaction rule), and about how poor water quality can affect your health. We will also cover a bit on water rights, well construction, well logs, and how your septic system can influence your well water quality. **If you would like to test your well water for nitrates (free of charge!) please bring a ½ cup sample in a sealed and labeled container.**

Instructor: Chrissy Lucas, Outreach Program Coordinator, Oregon State University Extension Service, Corvallis, OR.

10C Commercial Truffle Cultivation in Western Oregon



1:30-3:00pm

Oregon is among the world's best regions for farming European truffles. With development of modern seedling inoculation methods, 80-90% of French truffles are now grown in orchards of inoculated oak and hazelnut trees. While this is a new industry in North America, there are dozens of North American orchards in production, including six in Western Oregon. Learn about climates, soils, orchard establishment, production costs, markets, and results to-date for various cultivated truffles. If you have bare land with well drained soils and available irrigation water, truffles may work for you.

Instructor: Charles Lefevre, Ph.D., President, New World Truffieres, and Co-founder, Oregon Truffle Festival, Eugene, OR.

11C Hand Tools Can Be the Best Tools



1:30-3:00pm

Covers the use, maintenance, and repair of all those metal things with handles, from shovels and post-hole diggers to axes, machetes and various types of saws. The hand tool is not a machine; there is no starter and if you don't move it won't either, but it will reward your efforts if you apply it correctly. This is an indoor class held in a shop-classroom at the college where we will have use of vises, grinders, and files. It is part applied basic shop class and part applied aerobics and appreciation of human abilities. **Bring your own hand tool to sharpen if time allows.**

Instructors: Joe Goldsby, Stewardship Forester, Oregon Department of Forestry, Molalla, OR; Andy Bluhm, Senior Faculty Research Assistant, Hardwood Silviculture Cooperative, Oregon State University, Corvallis, OR.

12C Finding Frogs & Noticing Newts

1:30-3:00pm

This workshop will go over the basics of identifying and managing for common northwest Oregon amphibians. You'll learn to identify different frogs and salamanders as adults and by their eggs. We'll also discuss what habitat characteristics are important

for sustaining amphibians and seeing them on your property. We'll finish the workshop by walking around a pond on the community college campus to try and apply what we've learned in class. You'll even leave this workshop with tips on designing a walking trail that attracts amphibians and makes them easy for you to spot.

Instructor: Lauren Grand, Extension Forester & Natural Resource Agent, Oregon State University, Lane County, Eugene, OR.

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13C Estate Planning Solutions for Woodland Owners



1:30-3:00pm

Making plans for your estate is no easy task. It is even more challenging for woodland owners with land and timber. Many folks are overwhelmed when facing these tough decisions; recent surveys show an estimated 60% of Americans do not have an estate plan. With ever-changing laws, inflated property prices, and complex family dynamics, it is hard to even know where to begin. While estate planning may seem like a long hard road, it is important to have something in place sooner rather than later. This session is designed to help you implement a concise estate plan in short order that will make a lasting impact.

Instructor: Dave Lambert, Woodland Owner, Advisor, Columbia Wealth Advisors, LLC, Scappoose, OR.

14C Pruning Timber & Landscape Trees for Quality & Health



1:30-3:00pm

FIELD CLASS: DRESS FOR THE WEATHER. Learn how corrective pruning of young timber stands and landscape trees can help nip problems in the bud. Learn proper pruning techniques that help promote desired structure and growth and how this will positively impact your landscape trees and timberlands. We will focus on what you can implement with your feet firmly on the ground using pole and saw pruners with extensions, hand pruners, and loppers.

Instructors: J. Casey Clapp, Tree Inspector, ISA Certified Arborist, ISA Qualified Tree Risk Assessor, City of Portland, Portland, OR; Daniel Gleason, Tree Inspector, Urban Forestry Department, City of Portland, Portland, OR.

15C Biology & Management of Western Redcedar



1:30-3:00pm

Many people can identify western redcedar from its foliage, yet in spite of this leaf knowledge even many foresters don't know a lot about redcedar management. This class will cover the basic biology and ecology of the species and show how this information combined with results from long-term research trials can be used to develop guidelines for management. Redcedar is important in developing complex stand structures and wildlife habitat, and can be managed to produce valuable wood and other forest products. **Class participants will be invited to send in their western redcedar questions ahead of time so the instructor can address as many as possible.**

Instructor: Connie Harrington, Research Forester, Pacific Northwest Research Station, Olympia, WA.



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16C So You Want to Plant Some Trees



1:30-3:00pm

Are you interested in replanting native trees for a restoration project? Perhaps you are planning to harvest trees on your property and need some help with replanting techniques and where to find seedlings. Whether you are just getting started and still in the planning phase, or merely looking for tips for replanting, this basic reforestation course will help you with: planning and evaluating the site where you want to plant; how to match the right seedlings to your site; ordering seedlings and when to place your order; how to prepare your site for planting; how to handle and plant your seedlings with care; and strategies for future monitoring for animal damage and competing vegetation. Reforestation is the law in Oregon,

and successful completion of this class will equip you with the skillset and necessary resources for success!

Instructor: Dan Stark, Forestry and Natural Resources Extension Agent, Oregon State University, Astoria, OR.

17C Restoring & Maintaining Wooded Riparian Areas: BEGINNER LEVEL



1:30-3:00pm

This class will cover basic steps involved with successful riparian tree and shrub planting as might be done on open land of small farms or rural homesteads in the Willamette Valley or its foothills. Establishing trees and shrubs in riparian areas (near streams) poses significant challenges. The goal of this class is to improve your chances of success by combining traditional research-based reforestation techniques with the lessons learned from recent riparian plantings across western Oregon. Key steps to be covered include understanding your objectives, site assessment and design, site preparation, species typically planted, post-planting maintenance, and sources for assistance.

Instructor: Jon Souder, Extension Forest Watershed Management Specialist, Oregon State University, Corvallis, OR.

18C Small-Scale Harvesting for Woodland Owners



1:30-3:00pm

Planning a small volume timber sale comes with many of the same issues as those of the “big dogs”: easements, access and layout, selecting a logger and log buyer, and post-harvest considerations. There are also some unique things to consider in small-scale harvests including: adjacency (proximity to neighbors, property

lines, and homes), how to market these small volumes (are log buyers interested?), the feasibility of a harvest (are loggers interested? Can you afford them?), and whether you will make money on these thinnings and selective tree removals. Learn some of the issues loggers have when dealing with these small-scale harvests, along with some of the questions posed by fellow woodland owners in a 2016 survey. Topics to be covered include logging system basics, timber harvesting economics, contracts, selection of a logger, sale monitoring, and post-harvest considerations.

Instructor: Mark Smith, Owner, Farm Forestry Management, Sherwood, OR.

19C Woody Brush Control in Your Forest Using Herbicides



1:30-3:00pm

Knowing what herbicide to use and when to apply it is the key to effective brush and hardwood control. This class will cover the common prescriptions for herbicides to control woody brush and trees that compete with forest conifers. Brush control options for Douglas-fir and other commonly planted conifers will be discussed. Handout materials will detail products and rate effectiveness. Basic information on laws, application methods, and herbicide label comprehension will

also be presented. ODA pest credits have been applied for.

Instructor: Bruce Kelpsas, Retired Vegetation Management Specialist, Corvallis, OR.

20C Your Property Taxes & Your Forestland



1:30-3:00pm

Property is generally valued and taxed based on real market value or what that property would sell for in the real estate marketplace. Oregon's property tax system has some different twists and turns. The Oregon Legislature established several special assessment programs that help reduce property taxes for forestland owners who manage their property primarily for the purpose of growing and harvesting trees. Join us and learn a little more about how Oregon's property tax system works. What is the difference between real market value and assessed value? Which forestland programs are available to you and how is forestland valued? Learn how to apply for programs, what property qualifies, and how to reduce your taxes. Bring the questions you've always wanted to ask and we will provide answers.

Instructors: Lynn Longfellow, Clackamas County Appraisal Manager, Oregon City, OR; Tony Hunter, Senior Appraiser, Clackamas County Assessor's Office, Oregon City, OR.



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21C

Small Engine Care & Maintenance

1:30-3:00pm

Our power equipment runs great...until it doesn't. This is a basic level class covering the common causes of small engine problems and what you can do to avoid them, need-ed maintenance you can do, and practices you can use to extend the working life of your equipment. The class is taught by a man with 43 years of experience in repair, maintenance, and sales, across the range of power equipment used in woodland management. Briggs and Stratton Master Certified, Honda Master Certified, Kohler Master Certified, STIHL Factory Gold Certified.

Instructor: Rob Clark, Owner, Clark's Lawn & Garden, Oregon City, OR.



22C

Invasive Weeds Threatening Your Woodland: Detection & Management

3:45-5:15pm

Have you ever wondered what harmful invasive plants are in your forest or on the horizon? With early detection, these new invaders can be controlled before they become the next blackberry or Scotch broom. This session takes a proactive approach by addressing impacts, identification, reporting, and control of invasive plants that are NEW to the Willamette Valley. Stop these invasive species before they become established or spread further, retain healthy working landscapes, and be a "good neighbor" by preventing further spread across the entire watershed. ODA pesticide certification credits have been applied for.

Instructor: Michelle Delepine, Invasive Species Program Coordinator, West Multnomah Soil & Water Conservation District, Portland, OR.



LATE AFTERNOON CLASSES

Class Block D—Beginning at 3:45pm

6D

Making Shiitake Happen

3:45-5:15pm

Shiitake mushrooms have been claimed to be the world's healthiest food and are the second most harvested mushroom worldwide. In this workshop you will not only learn about the ecology of these mushrooms but also how to grow these tasty edibles in your own woodland! In this hands-on class you will inoculate a log with mushroom spores for at-home production and cultivation.

Instructor: Tiffany Hopkins, Program Coordinator for Master Woodland Manager and Women Owning Woodlands Network, Oregon State University, Corvallis, OR.



7D

Tree & Shrub Identification

3:45-5:15pm

FIELD CLASS: DRESS FOR THE WEATHER. In this class you will learn to identify some of the iconic trees and shrubs native to western Oregon woodlands and forests including: Douglas-fir, western hemlock, western redcedar, western white pine, sugar pine, noble fir, red alder, white oak, and (drumroll, please...) poison oak! There are several very good books on the identification of Pacific Northwest trees and shrubs available at local bookstores. We will be using *Trees to Know in Oregon* and *Shrubs to Know in Pacific Northwest Forests*. These books will be available for use during class, and will also be available for purchase at Tree School and at the Clackamas County OSU Extension office.

Instructor: Deanne Carlson, PhD Candidate, Oregon State University



Department of Forest Ecosystems and Society, Corvallis, OR.

8D

Support Your Local Raptors: How to Help Birds of Prey in Willamette Valley Forests & Edges

3:45-5:15pm

Touch a talon, wave a wing, and experience the silent flight of owls! In this fun and informative class you will understand raptors as you never have before:

- Identify the "Who's Hoo" of raptors in Willamette Valley forests
- Solve the mystery of what makes a raptor such a powerful predator
- Discover which raptor is considered the classic symbol of the West
- Define a forest habitat in detail
- Become empowered to attract and support Birds of Prey
- And so much more!

There will be lots of artifacts and specimens for you to experience up close and personal.

Instructor: Marilyn Ellis, Certified Interpretive Guide, Oregon Master Naturalist, Tryon Creek State Natural Area, Portland, OR.



9D

Wildfire in Your Forest Future & What to Do About It

3:45-5:15pm

How important is wildfire risk in your neighborhood? Is it getting worse? Is there really anything you can do to change it, especially when there are thousands of public and private acres beyond your control? Attend this class to get some answers. Westside or east-



side in Oregon, there are conflicting reports about wildfire risks, forest conditions, and management strategies for fire. For good answers we seek the knowledge of those who are most experienced and well-informed: fire scientists and fire fighters. Your instructor for this class is both, having studied fire science and fought wildfire over 40 years. He will improve your understanding of wildfire in your forest and how to change fire behavior (if needed) locally and across your landscape.

Instructor: Daniel Leavell, Forestry and Natural Resources Extension Agent, Oregon State University, Klamath Falls, OR.

10D



The Forest Floor: Managing for Beneficial Understory Vegetation in Your Woodland

3:45-5:15pm

A healthy forest consists of more than just vigorously growing trees. An intact understory of forbs and “middlestory” of shrubs is also important to support wildlife, biodiversity, and soil health. This class will briefly discuss managing some of the most common unwanted vegetation such as ivy, blackberry, and holly. Then we’ll dive into the details of replacing the unwanted weeds by planting shade tolerant wildflowers, grasses, and native shrubs. We’ll capture some of the key species that wildlife and forest pollinator species use, and share some take-home lessons from our planting trials in the Tualatin Mountains northwest of Portland.

Instructors: Michael Ahr, Forest Conservationist, West Multnomah Soil & Water Conservation District, Portland, OR; Laura Taylor, Conservationist & Education Coordinator, West Multnomah Soil & Water Conservation District, Portland, OR.

Daniel M. Leavell

Title: Associate Professor of Practice—and Forestry, Natural Resources, and Fire Science Extension Agent for Klamath and Lake County
Company: Oregon State University, College of Forestry, Corvallis, OR.



His peers recognize Daniel Leavell as an “awesome force” for his leadership and effectiveness in pursuing his passion for forestry and fire. His first formal fire training began in 1970 with the US Navy, learning to fight ship-board fires at sea. After that he started college working on fire behavior research at the Fire Control Lab in Riverside, California and completed his BS degree at OSU in 1977. His career in forestry and fire continued with the US Forest Service, in Idaho, Montana, and beyond, ultimately serving as both Type 1 and 2 Operations Section Chief and Type 3 Incident Commander. He also continued his formal education in silviculture and fire ecology, at OSU for his Masters and then landscape and community ecology at the University of Montana for his PhD. Through it all, Daniel was a firefighter every year for 40 years. Reflecting on his path in life, he says it was rough growing up (so he got it done early) and he now feels very fortunate for having a rich, full life and the experience of raising four beautiful children. And for living and working in places people pay just to see; having great adventures and accomplishing some good along the way. He gets to do what he loves, growing trees and lighting fires—preventing fire with fire!

With a full career behind him, Daniel came to work for OSU Extension in 2014 and became our leader in developing the Oregon State Extension Fire Program, making a difference at the landscape level across our state. He has taught at Tree School since 2015, offering classes including **Wildfire in Your Forest Future & What to Do About It; Fire, Fuels, and Hazard Reduction; Fire Ecology: Using the Science to Manage the Impact;** and **Youth Fire Academy.** He says “Most woodland owners I have had the fortune to work with really care about the natural resources they are responsible for. It has been a pleasure to serve and assist them.”

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11D Forest Carbon for the Family Forest Owner



3:45-5:15pm

Many family forest landowners are managing their property in a way that stores a lot of carbon in their forests' growth, and opportunities exist to be paid for this "carbon sequestration service." The Stewart family's Raincloud Tree Farm is one of the first examples of how forest carbon markets can work for family forest owners in Oregon. Jon Stewart will share his experience including key steps in the process of enrolling his 115-acre woodland in a forest carbon sequestration program. This was done in partnership with the Pinchot Institute for Conservation and their project *Unlocking Carbon Markets for Family Forest Owners*. The goal is to help overcome barriers that prevent family forest owners from participating in carbon markets. Attend this session to see how it can work.

Instructor: Jon Stewart, Co-owner, Raincloud Tree Farm, Corbett, OR.

12D Permaculture—How to Have Fun While Lowering Your Carbon Footprint

3:45-5:15pm

Permaculture is a comprehensive, nature-based design system for the creation of sustainable human environments. Because the climate emergency demands our attention, we'll start off with a brief summation of global-scale sustainability needs. From there we'll discuss low hanging fruit—personal practices that help address these needs and how permaculture principles can be applied to sustainability practices. One of the strong attractions of a residential permaculture practice is the joy and creativity it can bring to staying put and spending time creating and interacting with ecological systems. Permaculture can become a point of focus that strengthens our connections to the land and our neighbors and makes easier some hard decisions about what we do with our time.

Instructor: Nick Bezzerides, Permaculture Design Consultant and Owner, Sense of Place Permaculture, LLC, Clackamas, OR.

13D Protecting Yourself Through Proper Contracts and the Right Service Provider



3:45-5:15pm

Do you need to reduce fire risk on your property? Have some trees removed? Who do you hire? What questions should you ask? What should be in a contract? Hiring the right person to get work done on your land is one of the most important decisions you can make. A poorly done job can damage your soil and trees for years into the future! This class will provide tips for clearly articulating what you want done on your property, plus steps for finding and hiring someone.


Instructor: Tamara Cushing, Starker Chair of Private and Family Forestry, Assistant Professor & Extension Specialist, Forest Economics, Management & Policy, Oregon State University, Corvallis, OR.

14D Forest Stewardship & Conservation Incentives for Woodland Owners



3:45-5:15pm

Family forestlands account for nearly one third of the state's forest resources, contributing to important environmental, social, and economic values. In addition to one-on-one technical assistance available through the Oregon Department of Forestry and other partners, there are a number of state and federal programs designed to help small woodland owners accomplish their management objectives. This class will provide an overview of technical and financial assistance programs available to woodland owners, discuss the requirements to participate in these programs, and provide some strategies for making best use of these resources. From pre-commercial thinning to improve forest health, to enhancing wildlife habitat or accomplishing



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restoration objectives, there are incentive programs available for most forest landowners in Oregon. We'll walk through these programs and introduce you to the local partners available to help make your management objectives a success. This class will be well-suited for all landowners, regardless of how much experience you have managing your woodland resources.

Instructor: Ryan Gordon, Family Forestland Coordinator, Oregon Department of Forestry, Salem, OR.

15D Red Alder Management: Silviculture to Marketing



3:45-5:15pm

Is there potential for red alder management as a viable option on your land? What do you need to know about red alder management? Find the answers based on recent results of research and operations. This class will cover the latest information on key steps in alder management including stand establishment, tree spacing, pruning, harvesting, and marketing. We will discuss the potential values and benefits from alder in your forest and tools for evaluating your options.

Instructor: Andy Bluhm, Senior Faculty Research Assistant, Hardwood Silviculture Cooperative, Oregon State University, Corvallis, OR.

16D Words of Wisdom from the Woods: What Every Forest Owner Should Know!



3:45-5:15pm

Whether you are a long-time forest property owner or a more recent, newer, or wanna-be owner, this Tree School class (new in 2018 and back by popular demand) will share tricks and tips based on decades of collective

experience managing and caring for Pacific Northwest forests! Join a veteran panel of woodland owners and professional foresters who will share—in a coffee-table style conversation—their most useful “ah-ha” moments, tips, tricks, rules-of-thumb, factoids, and other bits of information they think every woodland owner should know. Topics will include forest land management, ensuring reforestation success, making the most out of your logging and marketing opportunities, dealing with pests (including your neighbors), and surviving with rules and regulations—plus who knows what else may come up! **Qualifies for two OPL-FP credits.**

Panel Moderator: Mike Bondi, Former OSU Extension Forestry Agent, Clackamas County, OR; and his friends—Gilbert Shibley, Dave Harmon, Roger Daugherty, Jack Carter, Scott Russell, and Mike Haasken.

17D Restoring & Maintaining Wooded Riparian Areas: INTERMEDIATE LEVEL



3:45-5:15pm

This class is designed for those who have some experience with riparian planting (or who have taken the Beginning class). We will cover intra- and inter-species competition as it affects planting design, effective strategies to stabilize streambanks, plant materials, changing maintenance and protection needs over time, and the importance of monitoring and evaluating your efforts.

Instructor: Jon Souder, Extension Forest Watershed Management Specialist, Oregon State University, Corvallis, OR.

Andrew Bluhm

Title: Senior Faculty Research Assistant
Company: Oregon State University



Growing up in Milwaukee, Wisconsin, Andy spent a lot of time on his family's property up in the Northwoods. So when it came time to decide on a profession, his choice was easy. He was drawn to the beauty and complexity of America's forests, leading to a B.S. degree in Forest Biology from the University of Minnesota and a Masters in Forest Ecology at the University of Georgia. As Senior Faculty Research Assistant at OSU's College of Forestry, he's worked with several projects and professors, including the Hardwood Silviculture Cooperative (HSC), the Swiss Needle Cast Cooperative, and OSU Research Forests. This year he takes on a new project coordinating Permanent Sample Plot measurements for the Long Term Ecological Research network. Andy is known for his positive attitude and skills in providing technical assistance, data collection, analysis, reporting, and presentations. A key motivation for Andy is his ongoing curiosity. "I can't help but ask questions, make guesses, and then try to find the answer(s). A career in forestry research was the perfect match."

With red alder being the 3rd most abundant tree in western Oregon, Andy's Tree School class **Red Alder Management: Silviculture to Marketing (15D)** is a mainstay. He started teaching this five years ago, based on many years studying alder for the HSC. Andy restores high-quality hand tools, which drew him in to co-teach **Hand Tools Can Be the Best Tools (11C)**. He is also an avid "hunter" of Big Trees across the Northwest. He enjoys spending time with his family, relaxing and working on their own forest land in Lane County. Andy says "What I like about Tree School is providing information to curious landowners to help them achieve their objectives. It's rewarding for me to add another tool to their forest management toolbox."

18D Small-Scale Harvesting for Woodland Owners

3:45-5:15pm

Planning a small volume timber sale comes with many of the same issues as those of the “big dogs”: easements, access and layout, selecting a logger



and log buyer, and post-harvest considerations. There are also some unique things to consider in small-scale harvests including: adjacency, how to market these small volumes, the feasibility of a harvest, and whether you will make money on these thinnings and selective tree removals. Learn some of the issues loggers have when dealing with these small-scale harvests, along with some of the questions posed by fellow

woodland owners in a 2016 survey. Topics to be covered include logging system basics, timber harvesting economics, contracts, selection of a logger, sale monitoring, and post-harvest considerations.

Instructor: Mark Smith, Owner, Farm Forestry Management, Sherwood, OR.

19D Root & Butt Decays in Oregon Conifers: Identification & Management



3:45-5:15pm

Root and butt diseases of conifers in western Oregon are caused by fungi that decay live roots and can enter the heartwood of the roots and butt of the tree. They can have a profound influence on conifer plantation management. Proper identification of root disease is vital to determine the best management approach. We'll discuss identification and management of the four major root and butt decays of conifers in western Oregon: laminated root rot, *Armillaria* root disease, *Heterobasidion* root disease, and *Schweinitzii* root and butt rot. Bring pictures and specimens to examine.


Instructor: Sarah Navarro, Plant Pathologist, USFS Forest Health Protection, Sandy, OR.

20D Your Property Taxes & Your Forestland



3:45-5:15pm

Property is generally valued and taxed based on real market value or what that property would sell for in the real estate marketplace. Oregon's property tax system has some different twists and turns. The Oregon Legislature established several special assessment programs that help reduce property taxes for forestland owners who manage their property primarily for the purpose of growing and harvesting trees. Join us and learn a little



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more about how Oregon's property tax system works. What is the difference between real market value and assessed value? Which forestland programs are available to you and how is forestland valued? Learn how to apply for programs, what property qualifies, and how to reduce your taxes. Bring the questions you've always wanted to ask and we will provide answers.

Instructors: *Lynn Longfellow, Clackamas County Appraisal Manager, Oregon City, OR; Tony Hunter, Senior Appraiser, Clackamas County Assessor's Office, Oregon City, OR.*

21D



Bats: Why We Should Care & How Small Woodlands Can Help

3:45-5:15pm

Bats are amazing and beneficial creatures yet they are among the most misunderstood and feared of animals. Many bat populations are declining and all bats need our help to survive into the future. This class will introduce you to Oregon's 15 species of bats. You'll learn about bat biology and behavior, their habitat needs, and

the threats they face, including White-nose Syndrome. We will discuss ecosystem services of bats, bats and disease, and appropriate methods for excluding bats from human structures. You'll learn what you can do to provide and improve bat habitat on your own property and during forest management activities.

Instructor: *Susan Barnes, Regional Conservation Biologist—West Region, Oregon Department of Fish and Wildlife, Clackamas, OR.*

READY TO SIGN UP FOR CLASSES?

Arrange your schedule by choosing one combination of:

- ✓ Two morning classes & Two afternoon classes OR
- ✓ Two morning classes & One 3-hour afternoon class OR
- ✓ One 3-hour morning class & Two afternoon classes OR
- ✓ One 3-hour morning class & One 3-hour afternoon class

REGISTRATION INFORMATION
pages 36-37

2020 TREE SCHOOL SUPPORTERS

A Sincere Thank You to Our Supporters!

Tree School 2020 Supporters have made important financial and in-kind contributions to make this event possible. We sincerely acknowledge their role in helping us bring this program to you. Note their ads on the following pages:

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HOW TO REGISTER FOR TREE SCHOOL

REGISTRATION OPENS TUESDAY, JANUARY 28, 2020 AT 10AM

- 1** Read the Class Descriptions on pages 4-33 for all classes you are interested in.
Please note that some classes have special instructions.
- 2** Go to the matrix on pages 20-21 to view the classes in four different time blocks.
Build your schedule by choosing one class from each block (A, B, C, D).
- 3** Register online at bit.ly/Clacktree or follow the QR code



Online registration is strongly encouraged for best class selection. **Sign-up with your information before registration opens in the IdealLogic registration system.** If you are unable to register online, use the form on the opposite page.
Registration will not be confirmed until we receive your payment.

Online Registration Tips

Signing in:

- Preferred browsers: Firefox or Chrome.
- If program has trouble loading, try using a private/incognito browser window.
- Sign in to the Ideal-Logic registration program using one of the options provided or create a new account.

PLEASE NOTE: each adult will need a separate email address to log in

Once you have logged in:

- Tabs on the LEFT side of the screen show selections for registration
- The RIGHT side of the screen shows the status of your registration and the classes you will chose.

Registering for classes:

- For each class time block, follow the instructions on the page. Scroll down to see the entire list and class descriptions.
- You will see the availability of each class. If a class you want is full, **please add your name to the waitlist. You will be notified** by email or phone if a spot becomes available. **Please also choose an available alternate class for that time block.**
- If you will not be attending a class in one of the time blocks, select **No Class Chosen.**
- If you enroll in an A/B or C/D extended class, select **No Class Chosen** in the B or D blocks.
- After completing each page, save your progress by clicking the green **Next** button in the lower right corner.

Payment:

- When you click the green **Pay Now** button at the bottom of the screen, it will take you to a secure website to enter your credit card information.
- Be sure to click the **Submit Registration** button to complete your registration.
- You will receive an email confirmation with your class list.
- You may choose to pay with a check or cash at the Extension office, **but you will not be registered for your classes until payment is complete.**

IF YOU NEED ANY HELP, CALL JEAN BREMER AT 503-655-8631.



PRE-REGISTRATION IS REQUIRED—NO REGISTRATIONS ACCEPTED ON THE DAY OF THE EVENT.

ONLINE REGISTRATION IS STRONGLY ENCOURAGED. If you are unable to register online, you may use the form below.

Register early for best class selection. Classes usually fill within three weeks of the start of registration.



Registration Form

Saturday, March 21, 2020

—Please print very legibly—
ONE FORM PER PERSON



Adult Youth Vegetarian Lunch

NAME _____

ADDRESS _____

CITY, STATE, ZIP _____

PHONE _____ DATE OF BIRTH _____
Best number to reach you during business hours

EMAIL _____

ACRES _____ GRADE (IF YOUTH) _____

FEES: Clackamas County Adult \$55
 I pay property taxes in Clackamas County
 Out of County Adult \$70
 Youth \$25 (6-18 minors with an adult)

TOTAL DUE: \$

★ CLASSES: If you select a 3-hour class, DO NOT sign up for any other classes in the morning or afternoon section.

PLEASE INDICATE 1st AND 2nd CHOICES:

	A	B	C	D
1st CHOICES:	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
2nd CHOICES:	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Have you attended Tree School before? Yes No

REGISTRATION AND PAYMENT OPTIONS:

- Online registration with credit card** (Visa & Mastercard)
Register online: bit.ly/Clacktree
This is the best option for best class selection.
- Register in person at the Extension office:** Cash, check or credit card (Visa & Mastercard).
- Mail-in**—Make checks payable to **OSU Extension Service**.
Mail the form and payment to Tree School, OSU Extension Service, 200 Warner Milne Rd., Oregon City, OR 97045.
- Refund Policy**—**No refunds will be allowed.** You may transfer your registration to another person prior to February 28, 2020 by contacting Jean Bremer at 503-655-8631.

REGISTRATION FEE covers class materials (unless specified in the class descriptions), lunch, coffee breaks, and transportation to field sites. **Tree School registration will close when 650 registrations are received and paid.** Confirmation notices will be sent in February for mail-in registrations. (Online registrations will receive confirmation after submitting.)

Are you interested in joining an organization that represents small private woodland owners? Whether it's 5 acres or 100s of acres, the Clackamas County Farm Forestry Association (CCFFA), a chapter of Oregon Small Woodlands Association, offers programs, activities, and personal contacts that will assist you in being a good woodland steward. For information on joining CCFFA, please check this box .



Accommodation requests related to a disability should be made by February 28, 2020 to Jean Bremer at 503-655-8631.

OREGON STATE UNIVERSITY MEDIA RELEASE

OSU requires media releases for all who participate. Please indicate whether or not you will allow us to use photos including this participant for publicizing and promoting Tree School and Oregon State University Extension programming.

I authorize Oregon State University, and those acting pursuant to its authority to:

- Record the participation and appearance of me (or the minor under my authority) at Tree School Clackamas in photographs, on videotape or audiotape, or in any other recorded medium. I understand that these recordings may be used in any medium, including print, Web, social media networks, video or audio.
- I waive any right I might have to inspect and/or approve the finished medium, or the use to which it may be applied. I understand that Oregon State University is not responsible for the unauthorized use of my name, likeness, voice or biographical material by third parties, including, but not limited to downloading of images and videos from the Internet or social media networks.

I understand that if I check the box below to decline to provide consent to the Photo/Media Release portion of this consent form, that this means that I and/or my child will be asked to step out of any photos that will be taken at Tree School. PLEASE CHECK A BOX TO COMPLETE REGISTRATION:

- I consent to the use of my photo in media _____ (please initial)
- I do not consent to the use of my photo in media

Hopkins Demonstration Forest

Hopkins Demonstration Forest provides a valuable learning experience for students, teachers, woodland owners, and those who love the beauty and bounty of our woodlands.

The Forest hosts many educational activities throughout the year. Workshops and field studies are offered for school and youth groups, teachers, landowners, and the community.

Call or visit the website to see how you can be involved.

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Phone: 503-632-2150



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FORESTRY & CHRISTMAS TREE PROGRAMS 2020



EDUCATION OPPORTUNITIES THROUGHOUT THE YEAR!

Second Saturday of each month: **Community Forestry Days**, Hopkins Demonstration Forest (HDF).

February 1, **State of Fire in Oregon: Stories from the front lines**. Breakfast 7:00am-11:00am; Meeting and Presentation 11:00am-12:30pm. Clackamas County Farm Forestry Association (CCFFA), Winter Breakfast, Meeting and Program, Springwater Grange, 24591 S. Springwater Rd. Estacada. Join CCFFA for breakfast, followed by a compelling presentation by Mike Haasken, Stewardship Forester and Fire Behavior Analyst for Oregon Department of Forestry. Everyone welcome. No registration required, breakfast is \$7.00, the meeting and presentation is free.

February 5, **Federal Income Taxes for Woodland Owners**, 6:00-8:30pm. OSU Extension Annex, Oregon City. This class is for anyone having recent forest income, or planning for future income from their forestland. Topics include recordkeeping and how to minimize taxes owed.

February 15, **Planting Forest Tree Seedlings**, 9:00am-12:00pm. A field workshop on reforestation basics from seedlings to planting. OSU Ramsdell Forest, Molalla, OR.

February 26-27, **Forest Health in Oregon: State of the State**, OSU Corvallis.

February 27, March 5, 7, & 12. **Basic Woodland Management Course**, HDF, Oregon City. Three evening sessions and a field day. \$40 individual, \$50 family.

March 11, **Keeping Your Home and Property Safe from Wildfire**. 6:00-8:00pm. Learn to assess and manage your property to Reduce Risk of Wildfire. Sandy Library, Sandy.

April 9, **Managing to Keep Forests Healthy in the Future**. 6:00-9:00pm. Clackamas County Farm Forestry Association annual meeting. Legends Arrowhead Country Club, Molalla. Everyone welcome.

April 18, **Forest Weed Management Field Day**, 8:30am-3:00pm. HDF.

May TBA. **Thinning and Selective Management of Mature Forests**. Maximizing timber value while maintaining mature forest conditions.

June TBA. **Forest Roads Workshop**.

June TBA. **Woodland Farmer of the Year Twilight Tour**.

August 1, **Clackamas Woodland Farmer of the Year Tour**, CCFFA Annual Picnic. 6:00pm-dusk,

Lazy B Timber Farm, Estacada, OR.

September 12, **Forest Owner Field Day**, 8:30am-4:00pm. HDF.

Sponsored by Oregon State University Extension Service and Clackamas County Farm Forestry Association.

Additional programs will be added during the year. For more information, visit <https://beav.es/Z9k>

Unless otherwise noted, call the OSU Extension Service office at 503-655-8631 for more information or to register.

Visit our website and subscribe to our e-news for updates on educational opportunities throughout the year. E-news: <https://beav.es/ZjT>

Follow us on Facebook for updates on forest news and future learning opportunities. Facebook: <https://beav.es/ZVr>

Use your phone camera to scan the "QR code" to visit our new Facebook page.



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