

Vermont Arbor Day Conference

Thursday, May 2, 2019
8:30 AM - 4:30 PM
Vermont College of Fine Arts
Montpelier, Vermont

8:30 AM	Registration and Refreshments			
9:00 AM	Welcome and Arbor Day Address, located in Chapel			
9:15-10:15 AM	Keynote Speaker: Jan Reynolds			
10:15 AM	Break			
TRACKS	A: Room 205	B: Room 206	C: Room 208	D: Chapel
10:30-11:45 AM	Proven IPM Principles for Managing Pests B. Ehnes & F. Dubois	Pest Round Up Mike Parisio, Jim Esden, Ginger Nickerson	Active Forest Mngmt. on Town Forests E. Tapper, D. Brynn, D. Paganelli	Emerald Ash Borer Roundtable
11:45 AM	Lunch (provided); located in Alumni Hall, across the street			
1:00-2:15 PM	What's Wrong With My Tree? VJ Comai Meet outside the building	Urban Tree Care: Past & Present Brian Beaty	How to Instantly Recognize Trees Mark Mikolas	UCF Inventory Tools: Updates & Beyond Elise Schadler & Joanne Garton
2:15 PM	Break			
2:30-3:15 PM	Lightning Round Amanda Garland Marie Ambusk Maddie Cotter	Tree Preservation Outside the Box William DeVos	Water's Path to Forest Floor Kevin Ryan & James Shanley	Native Woody Perennials and Pollinators John & Nancy Hayden
3:30 PM	Awards Ceremony & Mixer, located in Chapel			

***Some workshops are eligible for continuing education credits.**

Detailed Agenda

9:00 AM Welcome and Arbor Day Address

9:15 AM Keynote Speaker: Jan Reynolds

Jan Reynolds, author, mountaineer, adventurer, and athlete

Jan Reynolds' favorite things are to escape to an extreme environment and hang with the locals to learn about their culture and point of view. A resident of Stowe, Vermont, Reynolds is a medal-winner in World Cup biathlon and holds several high-altitude skiing and mountain climbing records. Reynolds is a prize-winning photojournalist whose intrepid adventures have taken her to every continent to photograph and record vanishing cultures, preserving their unique heritage for future generations.

Using her own anecdotes from expeditions around the world, Reynolds will share stories and inspiration on motivation, teamwork, and overcoming challenges.

Jan has lectured at the National Geographic Society, IBM, the Sierra Club, and many explorers' clubs, universities and schools around the world. Her work has been featured in National Geographic, the New York Times, Vogue, Esquire, and several ski and outdoor magazines. Her Vanishing Cultures series for children won the prestigious Parents' Choice Award. Reynolds uses the series to teach children about sustainability and what it means for our world. **SAF: 1.0 category 1 credit**

10:15 AM Break

10:30-11:45 AM Session 1 Workshops

1A: Proven IPM Principles for Managing Pests; Including Invasive Insects

Room 205

Brian Ehnes, Manager, BioForest/Lallemand Plant Care

Frédéric Dubois, Urban Forestry Technical Specialist, BioForest/Lallemand Plant Care

Every pesticide license mandates baseline education starting with the CORE training manual. Although the CORE's Chapter 16 is different for each state, Integrated Pest Management (IPM) remains the primary focus of all State Laws & Regulations. The key principals of IPM include: *identification, monitoring, control measures, recording & reporting*. This presentation will emphasize the importance of monitoring, as a key component of the IPM principals, while highlighting emerald ash borer success stories. Many tree wardens and managers overlook the importance of monitoring. How can you manage a pest when you don't know what you have? Data recording helps managers make better decisions. This talk will explain how emerald ash borer prism traps and other methods can help municipalities & tree wardens manage emerald ash borer, and their municipal funds. **SAF: 1.0 category 1 credit; ISA: 1.25 credits; Vermont Pesticide License: 1 credit**

1B: Pest Round Up

Room 206

Mike Parisio, Forest Health Specialist, Vermont Department of Forests, Parks, and Recreation
Jim Esden, Forester, Vermont Department of Forests, Parks, and Recreation
Ginger Nickerson, Forest Pest Education Coordinator, University of Vermont Extension

Invasive pests and diseases threaten Vermont's forests. Join this session to learn about oak wilt, hemlock woolly adelgid, and spotted lanternfly. Of these three threats, only hemlock woolly adelgid has been confirmed in Vermont. This panel will cover the threats these pests and diseases pose, as well as how to identify, and report any sightings. **SAF: 1.0 category 1 credit; ISA: 1.25 credits; Vermont Pesticide License: 1 credit**

1C: Active Forest Management on Town Forests

Room 208

Ethan Tapper, Chittenden County Forester, Vermont Department of Forests, Parks and Recreation
David Brynn, Executive Director and Conservation Forester, Vermont Family Forests Foundation
David Paganelli, Orange County Forester, Vermont Department of Forests, Parks and Recreation

Over the last century Town Forests in Vermont have provided many public benefits for our communities, including public spaces to enjoy nature and recreate. Many of these lands have also been historically managed for timber, wildlife habitat, water quality and demonstration purposes, among other benefits. Join Ethan Tapper, Chittenden County Forester, David Paganelli, Orange County Forester, and David Brynn, Vermont Family Forests (and former Addison County Forester) for a discussion of how to navigate the active management of Town Forests, from planning and outreach to implementation and follow-up, and how to use appropriate forest management to increase understanding of forests, forestry, and the production of local renewable forest resources in your community. **SAF: 1.0 category 1 credit**

1D: Emerald Ash Borer Roundtable

Chapel

John Akielaszek, Montpelier
Bill Baron, Grand Isle
Mark Dillenbeck, Charlotte
Sue Lovering, Johnson
John Snell, Montpelier

How has emerald ash borer impacted your community? Have you started implementing your EAB management plan or do you not even know where to start? Join this session to network with other community leaders planning for the pest and learn how towns have, are, and will be responding to this invasive pest. A panel of community representatives will share their experiences and the rest of the session will be dedicated to small group discussion. Bring your questions, observations, concerns, and ideas to share. **SAF: 1.0 category 1 credit; Vermont Pesticide License: 1 credit**

11:45 AM Lunch at Alumni Hall

Lunch will be located in Alumni Hall, across the street and down a few buildings. Please see map in your conference folder.

2A: What's Wrong With My Tree?

Room 205

VJ Comai, Burlington City Arborist, City of Burlington

What's wrong with my tree? That's a tough question to answer! But join Burlington City Forester, VJ Comai, for an **outdoor walk** to learn how to assess tree health and identify some basic signs and symptoms of common diseases, pests, and abiotic stresses. Every tree has a story to tell if you learn how to read it! **SAF: 1.0 category 1 credit; ISA: 1.25 credits; Vermont Pesticide License: 1 credit**

**This workshop will meet outside.*

2B: Urban Tree Care: Past and Present

Room 206

Brian Beaty, Campus Arborist, Dartmouth College

A review of tree care strategies on an historic college campus including a discussion of what's next for big urban trees. Brian Beaty is the Campus Arborist at Dartmouth College in Hanover, NH and is an ASCA Registered Consulting Arborist. **SAF: 1.0 category 1 credit; ISA: 1.25 credits**

2C: How To Instantly Recognize Trees

Room 208

Mark Mikolas, Author

Foresters can do it. Loggers can do it. Conservationists can do it. That is, walk through the woods and point to a tree and say, "That's a black birch," or "That's a black cherry" or "That's a gray birch." For most trees, they don't seem to need to see the leaves or the buds or the flowers or the seeds. How do they do it?

Based on how foresters do it, Mikolas, author of *A Beginner's Guide to Recognizing Trees of the Northeast*, has developed a new approach to recognizing trees, one that simplifies the effort in a number of ways. Whether you are a beginner yourself, or trees are part of your curriculum, the method he will present will be invaluable. **SAF: 1.0 category 1 credit; ISA: 1.25 credits**

2D: UCF Inventory Tools: Updates and Beyond

Chapel

Elise Schadler, Technical Assistance Coordinator, Vermont Department of Forests, Parks and Recreation

Joanne Garton, Resilient Right-of-Way Project Coordinator, VT Department of Forests, Parks and Recreation

Does your community use, or intent to use, digital and map-based inventory tools? Then this session is for you! Since 2014, VT UCF has been using the ArcGIS Collector app to assist municipalities with street tree and rural roadside ash inventories. But, ArcGIS Collector was recently upgraded -- this session will focus on how to use this new version of the app. We'll also review the basic how-tos of planning, implementing, and updating public tree inventories using Collector and introduce other cool mapping and map-viewing technologies. Participants should, if possible, bring a smart device (phone, tablet) with the ArcGIS Collector app downloaded if they'd like to follow along during this session. **SAF: 1.0 category 1 credit; ISA: 1.25 credits**

2:15 PM

Break

2:30-3:15 PM

Session 3 Workshops

3A: Lightning Round

Room 205

Never Forget Your ROOTS: Marie Ambusk, Co-Founder, CEO at TREES ROI

Let's talk about the problems that occur with the root system quality of nursery trees when grown in containers; about the current guidance to prevent or correct those problems and I will tell you what our TREES ROI Research Team is doing with science and technology to help solve that problem – at the Root Of It.

Partnerships in Planting: Maddie Cotter, Production & Volunteer Coordinator, Intervale Conservation Nursery

The Intervale Conservation Nursery engages hundreds of volunteers every year. Through partnerships with farmers, landowners, and volunteers, we are able to rehabilitate riparian areas around Vermont. This lightning conversation will highlight the past year's successes and briefly touch on our plan for this upcoming season.

Planting School Apple Orchards to Engage Youth and Public in Tree Stewardship and Orchard Management: Amanda Garland, Natural Resources & Sustainability Program Instructor, Central Vermont Career Center

Learn about one high school program's success in planning, planting, and managing 64 apple trees at 6 public schools in Central Vermont. Come find out how these mini orchards act as a resource in engaging youth around tree stewardship. Participants are invited to utilize these sites in their work educating the public through workshops or scientific observations. ***SAF: 1.0 category 1 credit; ISA: 0.75 credits***

3B: Tree Preservation Outside the Box

Room 206

William DeVos, Arborist, TREEWORKS

An overview of some unique projects across the United States, that required unusual measures to preserve extraordinary trees. ***SAF: 1.0 category 1 credit; ISA: 0.75 credits***

3C: Throughfall & Stemflow: Water's Path to Forest Floor, Room 208

Kevin Ryan, Graduate Research Assistant, Northeastern University
James Stanley, Research Hydrologist, US Geological Service

This workshop will focus on the interactions between rainfall and trees. The amount of water flowing through our local rivers is controlled by the balance between precipitation, evapotranspiration, and soil and groundwater storage. The quality of this water is controlled by the forests, soils, and human activities in the watershed. The first interaction of rainfall with the watershed occurs with the forest vegetation. Rainfall reaches the forest floor by falling through gaps between trees, dripping from leaves and branches as 'throughfall', and flowing down stems and trunks as 'stemflow'. This action redistributes the rainwater to "hotspots" at drip points and the base of trees. The amount of throughfall and stemflow depends on the season and rainfall intensity as well as tree size, shape, and species. Rainfall washes pollen and soot from branches and leaves and can also contain pollutants such as mercury. Nutrients such as nitrogen compounds and dissolved organic matter are leached from the tree and transported to the soil. In this way, trees regulate the quantity and quality of water reaching the forest floor and thereby have an important role in the function of forested ecosystems and downstream water quality. This workshop will present these concepts using recent results from a forest in northern Vermont and discuss potential applications in urban forests. **SAF: 1.0 category 1 credit; ISA: 0.75 credits**

3D: Native Woody Perennials and Pollinators

Chapel

John Hayden & Nancy Hayden, The Farm Between

John and Nancy Hayden will talk about the species of trees and shrubs that they have planted at The Farm Between in Jeffersonville, VT to create a livelihood, biodiversity, sequester carbon, and improve water quality. These native trees and shrubs are a keystone to their pesticide and fertilizer free perennial polyculture farming system. Learn about the products and ecological services these plantings provide, with an emphasis on floral resources for pollinators and other beneficial species. **SAF: 1.0 category 1 credit; ISA: 0.75 credits**

3:30 PM Awards Ceremony, located in Chapel

The Vermont Urban & Community Forestry Program and Council recognizes Vermont 2019 Tree Stewards and the recipients of national Arbor Day Awards for Tree City, Line and Campus USA.

Tree City USA

City of Burlington
Village of Essex Junction
Town of Hartford
Town of Middlebury
City of Montpelier
City of Rutland
Town of Shelburne
City of South Burlington

Tree Campus USA

Landmark College
Middlebury College
University of Vermont

Tree Line USA

Vermont Electric Power Company

Tree Steward Awards

Unsung Hero: *Karla Ferrelli*
Community:
Fairlee Town Forest Board
Leader: *Lynn Wild*
Hamilton Award: *Geoff Beyer*
Arbor Day Award: *Danielle Fitzko*

