

**2018 Whitebark Pine Ecosystem Foundation Annual Science and Management Workshop**  
**Central Idaho Whitebark pine: High, Dry and Burned - a focus on forest restoration following**  
**wildfires and mountain pine beetle in a changing climate**

**September 20-22, 2018**

**Stanley, ID**

<b>September 19 – Stanley Community Center (address)</b>		
9:30 am	6:00 pm	Whitebark Pine Ecosystem Foundation Board of Directors Meeting
630	700	<b>Community Program – Whitebark Pine in Peril: Why we Care and What We Can Do</b> <b>Stanley Museum</b> <b>Cyndi Smith</b> , Director, Whitebark Pine Ecosystem Foundation <b>Central Idaho Whitebark</b> <b>(Dana Perkins</b> , Retired whitebark pine Ecologist, BLM)
700	730	
<b>September 20 – Stanley Community Center (address)</b>		
7:30 am		<b>Registration Opens</b>
8:00 am	8:15 am	<b>Welcome and Workshop Logistics</b> <b>Cyndi Smith</b> , Director, Whitebark Pine Ecosystem Foundation <b>Brian Anderson</b> , Deputy Area Ranger, Sawtooth National Forest and Sawtooth National Recreation Area
<b>Morning Moderator:</b>		
8:15 am	8:40 am	<b>Keynote: –</b>
8:40 am	9:00 am	<b>Title:</b> Millennial-scale reconstructions of wildfire, vegetation, and erosion in the Payette and Salmon watersheds <b>Jen Pierce</b> , Associate Professor, Department of Geosciences, Boise State University
9:00 am	9:20 am	<b>Title:</b> (Geologic and Genetic Implications of Restoring Whitebark Pine Under Climate Change: Suitable Substrate central Idaho, Blister Rust Resistance and Drought Tolerance) <b>Mary Frances Mahalovich</b> , Regional Geneticist, USFS Northern, Rocky Mountain, Southwestern, and Intermountain Regions Co-authors: M.J. Kimsey and D.L. Foushee
9:20 am	9:40 am	<b>Title:</b> Climate change and whitebark pine distribution in the Sierra Nevada <b>Shawn McKinney</b> , Ecologist, Rocky Mountain Research Station. Coauthors: Peggy Moore, US Geological Survey Ecologist
9:40 am	10:00 am	BREAK
10:00 am	10:20 am	<b>Title:</b> Predicting whitebark pine post-fire mortality <b>Sharon Hood</b> , Rocky Mountain Research Station
10:20 am	10:40 am	<b>Title:</b> Managing whitebark pine under climate-altered fire regimes: assessing extirpation risk in the Greater Yellowstone using a demographic projection model <b>Elizabeth Pansing</b> , PhD candidate, University of Colorado-Denver Co-authors: Diana Tomback, Michael Wunder
10:40 am	11:00 am	<b>Title:</b> Prescribed burning as a tool for Restoration of whitebark pine, mission upland burn, Flathead NF <b>Cara Nelson</b> , Professor, University of Montana



11:00 am	11:20 am	<p><b>Title:</b> Whitebark Fire History of the Cascades &amp; Bitterroots</p> <p><b>Michael Murray</b>, British Columbia Ministry of Forests  <b>Coauthor: Joel Siderius</b></p>
11:20 am	11:40 am	To be announced
11:40 am	12:00 pm	<p><b>Title</b> WPBR in 5 needle pines (limber and Rocky Mtn bristlecone pines, Great Basin bristlecone pines)</p> <p><b>Anna Schoettle, Research Plant Ecophysiologicalist, RMRS</b></p>
12:00 pm	1230 pm	LUNCH (Homemade soup and bread provided)
<b>Afternoon Moderator:</b>		
1230pm	12:50pm	<p><b>Title:</b> What's up with <i>Pinus</i> defenses</p> <p><b>Barbara Bentz</b>, Research Entomologist, Rocky Mtn Research Station</p>
12:50	1:10	<p><b>Title:</b> Monitoring following operational treatments</p> <p><b>Colin Maher</b>, Ph.D Candidate, University of Montana</p>
		<p><b>Title</b> Monitoring whitebark pine on Bureau of Land Management lands in north- and west-central Idaho</p> <p><b>Steven Rust, Nature's Capital</b>  <b>Coauthor: LeAnn Abell, Coeur d'Alene District BLM</b></p>
1:10 pm	1:30 pm	<p><b>Title:</b> Whitebark pine demographic and forest health trends across Region 4, Non Grizzly Forests</p> <p><b>Laura Lowrey</b>, Forest Entomologist, USFS FHP  Coauthors: Sarah Bisbing, Associate Professor, University of Nevada-Reno, Matt Terez</p>
1:30 pm	1:50 pm	<p><b>Title:</b> Whitebark Pine Seed Sowing on the Custer Gallatin National Forest</p> <p><b>Clay DeMastus</b>, Orchard Manager, Custer-Gallatin NF</p>
1:50 pm	2:10 pm	<p><b>Title:</b> Field Testing Whitebark Pine in British Columbia</p> <p><b>Charlie Cartwright</b>, Forest Geneticist, Cowichan Lake Research Station</p>
2:10 pm	2:30 pm	<p><b>Title:</b> Whitebark Pine Friendly Ski Area Certification Program</p> <p><b>Michael Giesey</b>, Whitebark Pine Ecosystem Foundation</p>
2:30 pm	2:50 pm	BREAK
2:50 pm	3:10 pm	<p><b>Title:</b> Whitebark Pine Discovery Trail – Educational Outreach at Newberry National Volcanic Monument in Oregon</p> <p><b>Brent Oblinger</b>, USDA Forest Service, Forest Pathologist, Central OR Service Area</p>
3:10 pm	4:40 pm	<p><b>Manager/Operational Panel</b></p> <p>Boise NF-Keith Wilson/Jennifer Brickey  Sawtooth NF- Robin Garwood/Deb Taylor  Salmon-Challis NF –David Morris  Payette NF – Paul Klasner  HT NF- Duncan Leo  GYE –Avery Beyer  Melissa Jenkins- Crown of Continent  BLM- Emily Guiberson  CDA Nursery  Lucky Peak Nursery</p>
4:40	5:00 pm	<p><b>Title:</b> The National Whitebark Pine Restoration Plan: a multi-agency collaborative effort to rescue a high elevation foundation and keystone species</p> <p><b>Diana Tomback, Professor</b>, Policy and Outreach Coordinator</p>



		Whitebark Pine Ecosystem Foundation and Professor, Department of Integrative Biology, University of Colorado-Denver
5:00 pm	6:30 pm	<b>Cash Bar with Informal Poster Session –Mtn Village Bar</b>
5:00 pm	8:00 pm	<b>Silent Auction by Rep</b> Bid on merchandise, art, crafts, books, etc. and support whitebark pine restoration
<b>September 21</b> <b>Field trip to Galena Summit and Rainbow Creek Project Area</b> <b>8am- 4 pm (out and back from Stanley, Meet at Mtn. Village Lodge, Stanley)</b> This is a management focused trip. Come learn about the approaches Sawtooth and SNRA staff have available to them to manage whitebark pine. We will car pool to Galena Summit and hike the moderately steep dirt road ½ mile to the beginning of the planting area, and by several permanent plots and transects. The route will continue to gradually climb the next 1 mile. The last ¼ mile, steeper than the previous mile, will take us to Rainbow Creek Project area and a daylighting thinning area and the edge of a wildfire. Total hike up estimated at 2 hours with talking time, total down 1 hour 30 minutes; elevation change = 8,700 ft to 9,300 ft. One shuttle van will be available to take folks back to Stanley that only wish to climb to the planting and permanent plot area. Others can continue on and return to Stanley after visiting Rainbow Creek.		
<b>September 22 (Meet at Mountain Village, Stanley)</b> <b>Basin Butte Lookout, Salmon-Challis National Forest</b> <b>9am-12 pm</b> We will car pool 45-50 minutes from Stanley to Basin Butte Lookout, 8,954 ft. It is a good road with some water bars that may give low clearance vehicles a belly ache. Expect two hours at the site with discussions at the wrap around porch on the lookout with a 360 degree view of 2012 Halstead wildfire and others, and THE PEAKS! Discussions will include Fire and Lookout History, Regen sampling, Blister Rust ID, Plus Tree Program in R4, cooperating and coordinating efforts in R4.		

**Poster Session, September 20, 2018** (Community Center beginning 8 am and during Social 5-6:30 pm)

**Denyse Dawe**, MSc. Candidate, Canadian Partnership for Wildland Fire Science, University of Alberta.

**Title:** Limber pine regeneration following fire in the Northernmost extent of its range.

**Maegen Rochner**, M.S. Candidate, Department of Geography, University of Tennessee

**Title:** Tree-Ring Reconstruction of Late Holocene Wildfire from Remnant Logs in a High-Elevation Whitebark Pine Ecosystem, Beartooth Mountains, Wyoming, U.S.A.

**Michael Murray**, British Columbia Ministry of Forests

**Title:** Raising resistance: restoring endangered whitebark pine

