**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**

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| **September 19 –**  **Stanley Community Center (address)** |
| 9:30 am | 6:00 pm | Whitebark Pine Ecosystem Foundation Board of Directors Meeting |
| 630 700 | 700 730 | **Community Program – Whitebark Pine in Peril: Why we Care and What We Can Do****Stanley Museum** **Cyndi Smith**, Director, Whitebark Pine Ecosystem Foundation**Central Idaho Whitebark****(Dana Perkins**, Retired whitebark pine Ecologist, BLM) |
| **September 20 –**   **Stanley Community Center (address)** |
| 7:30 am |  | **Registration Opens** |
| 8:00 am | 8:15 am | **Welcome and Workshop Logistics****Cyndi Smith**, Director, Whitebark Pine Ecosystem Foundation**Brian Anderson**, Deputy Area Ranger, Sawtooth National Forest and Sawtooth National Recreation Area  |
| **Morning Moderator:**  |
| 8:15 am | 8:40 am  | **Keynote: –**  |
| 8:40 am  | 9:00 am | **Title:**  Millennial-scale reconstructions of wildfire, vegetation, and erosion in the Payette and Salmon watersheds**Jen Pierce**, Associate Professor, Department of Geosciences, Boise State University |
| 9:00 am  | 9:20 am | **Title:** (Geologic and Genetic Implications of Restoring Whitebark Pine Under Climate Change: Suitable Substrate central Idaho, Blister Rust Resistance and Drought Tolerance)**Mary Frances Mahalovich**, 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 | **Title:**  Climate change and whitebark pine distribution in the Sierra Nevada**Shawn McKinney,** 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 | **Title:** Predicting whitebark pine post-fire mortality**Sharon Hood**, Rocky Mountain Research Station |
| 10:20 am | 10:40 am | **Title:**  Managing whitebark pine under climate-altered fire regimes: assessing extirpation risk in the Greater Yellowstone using a demographic projection model**Elizabeth Pansing**, PhD candidate, University of Colorado-DenverCo-authors: Diana Tomback, Michael Wunder  |
| 10:40 am | 11:00 am | **Title:**  Prescribed burning as a tool for Restoration of whitebark pine, mission upland burn, Flathead NF**Cara Nelson, Professor, University of Montana**  |
| 11:00 am | 11:20 am | **Title:** Whitebark Fire History of the Cascades & Bitterroots**Michael Murray,** British Columbia Ministry of Forests**Coauthor: Joel Siderius** |
| 11:20 am | 11:40 am | To be announced |
| 11:40 am | 12:00 pm | **Title** WPBR in 5 needle pines (limber and Rocky Mtn bristlecone pines, Great Basin bristlecone pines)**Anna Schoettle, Research Plant Ecophysiologist, RMRS**  |
| 12:00 pm | 1230 pm | LUNCH (Homemade soup and bread provided) |
| **Afternoon Moderator:**  |
| 1230pm | 12:50pm | **Title:**  What’s up with *Pinus* defenses**Barbara Bentz,** Research Entomologist, Rocky Mtn Research Station |
| 12:50 | 1:10 | **Title:** Monitoring following operational treatments**Colin Maher**, Ph.D Candidate, University of Montana |
|  |  | **Title** Monitoring whitebark pine on Bureau of Land Management lands in north- and west-central Idaho**Steven Rust, Nature’s Capital****Coauther: LeAnn Abell, Coeur d’Alene District BLM** |
| 1:10 pm | 1:30 pm | **Title:** Whitebark pine demographic and forest health trends across Region 4, Non Grizzly Forests**Laura Lowrey**, Forest Entomologist, USFS FHPCoauthers: Sarah Bisbing, Associate Professor, University of Nevada-Reno, Matt Terez |
| 1:30 pm | 1:50 pm | **Title:** Whitebark Pine Seed Sowing on the Custer Gallatin National Forest**Clay DeMastus**, Orchard Manager, Custer-Gallatin NF  |
| 1:50 pm | 2:10 pm  | **Title:** Field Testing Whitebark Pine in British Columbia**Charlie Cartwright**, Forest Geneticist, Cowichan Lake Research Station  |
| 2:10 pm | 2:30 pm | **Title:** Whitebark Pine Friendly Ski Area Certification Program**Michael Giesey,** Whitebark Pine Ecosystem Foundation |
| 2:30 pm | 2:50 pm  | BREAK |
| 2:50 pm  | 3:10 pm | **Title:** Whitebark Pine Discovery Trail – Educational Outreach at Newberry National Volcanic Monument in Oregon**Brent Oblinger**, USDA Forest Service, Forest Pathologist, Central OR Service Area |
| 3:10 pm | 4:40 pm | **Manager/Operational Panel** Boise NF-Keith Wilson/Jennifer BrickeySawtooth NF- Robin Garwood/Deb TaylorSalmon-Challis NF –David MorrisPayette NF – Paul KlasnerHT NF- Duncan Leo GYE –Avery BeyerMelissa Jenkins- Crown of ContinentBLM- Emily GuibersonCDA NurseryLucky Peak Nursery |
| 4:40 | 5:00 pm | **Title:** The National Whitebark Pine Restoration Plan: a multi-agency collaborative effort to rescue a high elevation foundation and keystone species**Diana Tomback, Professor**, Policy and Outreach CoordinatorWhitebark Pine Ecosystem Foundation and Professor, Department of Integrative Biology,University of Colorado-Denver  |
| 5:00 pm | 6:30 pm  | **Cash Bar with Informal Poster Session –Mtn Village Bar** |
| 5:00 pm | 8:00 pm  | **Silent Auction by Rep**Bid on merchandise, art, crafts, books, etc. and support whitebark pine restoration |
| **September 21** **Field trip to Galena Summit and Rainbow Creek Project Area****8am- 4 pm (out and back from Stanley, Meet at Mtn. Village Lodge, Stanley)**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. |
| **September 22** (Meet at Mountain Village, Stanley)**Basin Butte Lookout, Salmon-Challis National Forest****9am-12 pm**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