**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 |
| 6:30 pm | 7:00 pm | **Community Program – Whitebark Pine in Peril: Why we Care and What We Can Do**  **Stanley Museum**  **Elizabeth Pansing**, University of Colorado, Denver Whitebark pine ecology |
| **September 20 –**   **Stanley Community Center (address)** | | |
| 7:30 am |  | **Registration Opens** |
| 8:00 am | 8:30 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  **Megan Keville** – Northern Rockies Fire Science Network |
| **Morning Moderator: Cyndi Smith** | | |
| 8:30 am | 9:00 am | **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 Coordinator  Whitebark Pine Ecosystem Foundation and Professor, Department of Integrative Biology,  University of Colorado-Denver |
| 9:00 am | 9:20 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 |
| 9:20 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:**  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-Denver  Co-authors: Diana Tomback, Michael Wunder |
| 10:20 am | 10:40 am | **Title:**  Prescribed burning as a tool for Restoration of whitebark pine, mission upland burn, Flathead NF  **Cara Nelson, Professor,** University of Montana |
| 10:40 am | 11:00 am | **Title:** Whitebark Fire History of the Cascades & Bitterroots  **Michael Murray,** British Columbia Ministry of Forests  **Coauthor: Joel Siderius** |
| 11:00 am | 11:20 am | **Title:** Predicting whitebark pine post-fire mortality  **Sharon Hood**, Rocky Mountain Research Station |
| 11:20 am | 11:40 am | **Title:** High, Dry, and Safe?  Five-needle Pines in the Great Basin and Southern Rockies  **Anna Schoettle,** Research Plant Ecophysiologist, RMRS |
| 11: 00 am | 12:00pm | **Title:**  What’s up with *Pinus* defenses  **Barbara Bentz,** Research Entomologist, Rocky Mtn Research Station |
| 12:00 pm | 12:30 pm | LUNCH (Homemade soup and bread provided) |
| **Afternoon Moderator: Angel Saavedra** | | |
| 12:30 pm | 12:50 pm | **Title:**  Whitebark pine in mixed-species stands throughout the western US: Broad-scale indicators of extent, regeneration, and recent decline  **Sara Goeking, Biological Scientist,** USFS RMRS, Inventory and Monitoring |
| 12:50 pm | 1:10 pm | **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:** Ecological effects and effectiveness of silvicultural restoration treatments in whitebark pine forests  **Colin Maher**, Ph.D Candidate, University of Montana |
| 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** Seeds and Seedling survivorship in two MPB-mortality WBP stands  **Kelly McCloskey,** Ecologist, Grand Teton National Park |
| 2:10 pm | 2:30 pm | **Title:** Field Testing Whitebark Pine in British Columbia  **Charlie Cartwright**, Forest Geneticist, Cowichan Lake Research Station |
| 2:30 pm | 2:50 pm | **Title:** Whitebark Pine Friendly Ski Area Certification Program  **Michael Giesey,** Whitebark Pine Ecosystem Foundation |
| 2:50 pm | 3:10 pm | BREAK |
| 3:10 pm | 3:30 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 |
| 3:30 pm | 5:00 pm | **Manager/Operational Panel**  Boise NF-Keith Wilson/Jennifer Brickey  Sawtooth NF- Robin Garwood/Deb Taylor  Salmon-Challis NF –David Morris  Payette NF – Paul Klasner  H-T NF- Duncan Leo  GYE –Avery Beyer  Crown of Continent- Melissa Jenkins  BLM and GYE- Emily Guiberson  CDA Nursery-Jasmine Drapeau  Lucky Peak Nursery -Sara Wilson  FHP-Laura Lowrey |
| 5:00 pm | 6:30 pm | **Cash Bar with Informal Poster Session –Mtn Village Bar** |
| 5:00 pm | 8:00 pm | **Silent Auction in Mtn Village Bar, Velvet Falls Room**  Bid on merchandise, art, crafts, books, etc. and support whitebark pine restoration. Bidding closes at 8:00 PM. |
| **September 21**  **Field trip to Galena Summit and Rainbow Creek Project Area**  **830**  **8:30 am - 9 am- WPEF Membership Meeting**  **9a.m.- 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 Sawtooth National Recreation Area staff have available to them to manage whitebark pine. We will car pool from the Mtn Village at 9 am to Galena Summit and begin the membership meeting. Next, we will 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 (we should reach the top by lunchtime, 3.5 hours). The estimated time for the return trip to the vehicles is 1 hour 30 minutes. The elevation change = 8,700 ft. to 9,300 ft. Attendees can plan to hike back to the car at any point they choose. Others can continue on and return to Stanley after visiting Rainbow Creek. **Bring your own lunches, water, and field gear for the hike.** | | |
| **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. **Bring your own lunches, water, and field gear for the hike.** | | |

**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