

# Biochar Opportunities in the Southwest

## Extension Workshop

### April 7, 8, 9, 2021

**WEDNESDAY, APRIL 7, 4:00 p.m. MDT/3:00 p.m. AZ**

**Special Keynote Tailgater Presentation:** Tom Miles, USBI Executive Director  
 Title: Overview on Biochar in US and Southwest

**THURSDAY, APRIL 8, 9:00 a.m. MDT/8:00 a.m. AZ**

<b>9:00</b> (8 AZ)	<p><b>WELCOME</b></p> <ul style="list-style-type: none"> <li>- Chris Jones, UA Extension Agent (Moderator)</li> <li>- Workshop Objectives: Tony Cheng, CSU Extension Specialist</li> </ul>
<b>9:15</b>	<p><b>KEYNOTE #1</b></p> <p><b>Speaker:</b></p> <ul style="list-style-type: none"> <li>- Deborah Page-Dumroese, PhD, Research Soil Scientist, USDA Forest Service, Rocky Mountain Research Station</li> <li>- <b>Title:</b> Why Biochar? Environmental and social considerations; research and movement, CO2 sequestration, ecosystem services.</li> </ul>
<b>10:00</b>	<p><b>KEYNOTE #2</b></p> <p><b>Speaker:</b></p> <ul style="list-style-type: none"> <li>- Mike Lester, Colorado State Forester</li> <li>- <b>Title:</b> What is Current Forest Management Costing Us Now? Wildfire and WUI risks, wildfire smoke as a public health issue; what are barriers to management and how to overcome. Where does biochar fit as part of the solution?</li> </ul>
<b>10:30</b>	<p><b>BREAKOUT ROOMS</b></p> <p>Small group breakout sessions to discuss Deborah and Mike’s presentations. Make introductions and discuss environmental and management concerns; what do they think of biochar? Pre-set questions for facilitators. Prioritize actions and concerns.</p>
<b>11:00</b>	<p><b>REPORT BACK FROM BREAKOUT ROOMS</b></p> <p>Breakout facilitators briefly report back on key discussion items, ranked concerns/action</p>
<b>11:15</b>	<p><b>TECHNICAL PRESENTATIONS</b></p> <p><b>Speaker #1:</b></p> <ul style="list-style-type: none"> <li>- Darren McAvoy, USU Extension Specialist</li> <li>- <b>Title:</b> How Do You Make Biochar? Scales of production</li> </ul> <p><b>Speaker #2:</b></p> <ul style="list-style-type: none"> <li>- Catie Brewer, PhD, Associate Professor, NMSU</li> <li>- <b>Title:</b> Properties of Biochar. Quality standards for different uses, species of wood, ash, particulate matter, etc.</li> </ul>
<b>12:00</b>	<p><b>SESSION ENDS. Stay for Q&amp;A if you like. SEE YOU TOMORROW</b></p> <ul style="list-style-type: none"> <li>- Up to a 20-minute Q&amp;A session with Darren and Catie</li> </ul>
<b>4:00 – 5:30</b> (3 AZ)	<p><b>VIRTUAL FIELDTRIP AND “SOCIAL HOUR”</b></p> <ul style="list-style-type: none"> <li>- Come back to see our projects “in-the-field” and for an informal shop-talk “social” session!</li> </ul>

## FRIDAY, APRIL 9, 9:00 a.m. MDT/8:00 a.m. AZ

9:00 (8 AZ)	<b>WELCOME AND RECAP</b> <ul style="list-style-type: none"><li>- Chris Jones, UA Extension Agent (Moderator)</li><li>- Recap: Doug Cram, NMSU Extension Specialist</li></ul>
9:15	<b>KEYNOTE</b> <p><b>Speaker:</b></p> <ul style="list-style-type: none"><li>- Nathaniel Anderson, PhD, Research Forester, USDA Forest Service, Rocky Mountain Research Station</li><li>- <b>Title:</b> Why Biochar? The economics of biochar enterprise with a focus on scale, industrial ecology, markets, carbon, feedstock and competitive advantages in the Southwest</li></ul>
9:45	<b>PANEL DISCUSSION</b> <p><b>Panel Goal:</b> Present real world biochar applications in the Four Corner States, including a wide representation of biochar practitioners (5-6), to discuss their operations.</p> <p><b>Practitioners (invited):</b></p> <ul style="list-style-type: none"><li>- AZ: Tyson Nicoll, AZ Log &amp; TimberWorks, Eagar (<a href="https://azlogs.com/">https://azlogs.com/</a>)</li><li>- CO: TBA</li><li>- NM: Gordon West, Trollworks, Silver City (<a href="https://www.troll.works/">https://www.troll.works/</a>) Eva Stricker, Carbon Ranch@Quivira Coalition (<a href="https://quiviracoalition.org/carbon-ranch-initiative/">https://quiviracoalition.org/carbon-ranch-initiative/</a>)</li><li>- UT: John Webster, Go Biochar, SLC (<a href="https://gobiochar.com/">https://gobiochar.com/</a>)</li><li>- OR: Kelpie Wilson, Wilson Biochar (<a href="https://wilsonbiochar.com/">https://wilsonbiochar.com/</a>)</li></ul> <p><b>Discussion between Practitioners and Q&amp;A Session</b></p>
10:45	<b>BREAKOUT ROUNDTABLES</b> <p><b>Activity:</b> Pair practitioners with Extension and/or research partner and participants Discuss how these applications can be replicated or modified according to participant interests; what are the barriers and opportunities for their localities?</p> <p><b>Breakout Rooms:</b> Format to be determined.</p>
11:15	<b>REPORT BACK FROM BREAKOUT ROOMS</b> <p>Breakout facilitators briefly report back on key discussion items, possible actions, etc.</p>
11:45	<b>CLOSING REMARKS</b> <p><b>Speaker:</b> Laura Wolf, USDA Forest Service R2, Biomass Coordinator</p>
12:00	<b>ADJOURN. Evaluation link and Have a great weekend!</b>

**NOTE: All start times are one hour earlier in Arizona.**