

Biochar Opportunities in the Southwest: Extension Workshop

April 7, 8 & 9, 2021

APRIL 7, 2021, 4:00 – 5:30pm MDT* (3-4:30pm AZ)

Special “Pre-note” Keynote Presentation: Tom Miles, USBI Executive Director

Title: Biochar in United States and Southwest – Overview

APRIL 8, 2021 (Mountain Daylight Time)*

9:00 (8 AZ)	WELCOME <ul style="list-style-type: none">- Chris Jones, UA Extension Agent (Moderator)- Workshop Objectives: Tony Cheng, CSU Extension Specialist
9:15	KEYNOTE #1 <p>Speaker:</p> <ul style="list-style-type: none">- Deborah Page-Dumroese, PhD, Research Soil Scientist, USDA Forest Service, Rocky Mountain Research Station- Title: Why Biochar? Environmental and social considerations; research and movement, CO2 sequestration, ecosystem services.
10:00	KEYNOTE #2 <p>Speaker:</p> <ul style="list-style-type: none">- Nathaniel Anderson, PhD, Research Forester, USDA Forest Service, Rocky Mountain Research Station- Title: Why Biochar? Non-market benefits of fuel treatment (wildfire risk, air quality, forest restoration and renewable energy benefits)
10:30	BREAKOUT ROOMS <p>Small group breakout sessions to discuss Deborah and Nathan’s presentations. What do you think of biochar and its role as a forest management solution? What are key barriers and opportunities of which you are aware? Pre-set questions for facilitators. Prioritize actions and concerns.</p>
11:00	REPORT BACK FROM BREAKOUT ROOMS <p>Breakout facilitators briefly report back on key discussion items, ranked concerns/action</p>
11:15	TECHNICAL PRESENTATIONS <p>Speaker #1:</p> <ul style="list-style-type: none">- Darren McAvoy, USU Extension Specialist- Title: How Do You Make Biochar? Scales of production <p>Speaker #2:</p> <ul style="list-style-type: none">- Catie Brewer, PhD, Associate Professor, NMSU- Title: Properties of Biochar. Quality standards for different uses, species of wood, ash, particulate matter, etc.
12:00	ADJOURN. Or Stay for Q&A. SEE YOU TOMORROW <ul style="list-style-type: none">- Up to a 20-minute Q&A session with Darren and Catie
4:00 – 5:30 (3 AZ)	VIRTUAL FIELDTRIP AND “SOCIAL HOUR” <ul style="list-style-type: none">- Come back to see our projects “in-the-field” and for an informal shop-talk “social” session!

APRIL 9, 2021 (Mountain Daylight Time)*

9:00 (8 AZ)

WELCOME AND RECAP

- Chris Jones, UA Extension Agent (Moderator)
- Recap: Doug Cram, NMSU Extension Specialist

9:15

KEYNOTE

Speaker:

- Nathaniel Anderson, PhD, Research Forester, USDA Forest Service, Rocky Mountain Research Station
- **Title:** Why Biochar? The economics of biochar enterprise with a focus on scale, industrial ecology, markets, carbon, feedstock and competitive advantages in the Southwest.

9:45

PANEL DISCUSSION

Panel Goal: Present real world biochar applications in the Four Corner States, including a wide representation of biochar practitioners (5-6), to discuss their operations.

Practitioners (invited):

- NM: Eva Stricker, Carbon Ranch, Santa Fe (quiviracoalition.org/carbon-ranch-initiative/)
- AZ: Tyson Nicoll, AZ Log & TimberWorks, Eagar (<https://azlogs.com/>)
- KS/NE: Heather Norbert, Agricultural applications/energy projects
- NM: Gordon West, Trollworks, Silver City (<https://www.troll.works/>)
- OR: Kelpie Wilson, Wilson Biochar, Cave Junction (<https://wilsonbiochar.com/>)
- UT: John Webster, Go Biochar, SLC (<https://gobiochar.com/>)

Discussion between Practitioners and Q&A Session

10:45

BREAKOUT

Breakout Activity: Pair practitioners with Extension and/or research partner and participants
How might these biochar applications be replicated or modified for your community or business interest? What are the barriers and opportunities for your locality?

11:15

REPORT BACK FROM BREAKOUT ROOMS

Breakout facilitators briefly report back on key discussion items, possible actions, etc.

11:45

CLOSING REMARKS

Speaker:

Laura Wolf, USDA Forest Service R2, Biomass Coordinator

12:00

ADJOURN. Evaluation link and Have a great weekend!

* All start times are one hour earlier in Arizona: at 3:00pm or at 8:00am.