Intensive Biochar Workshop at Menoken Farm — AGENDA



Monday, April 15

12:30 - 1:00	Registration and Introductions	
1:00 - 1:30	Biochar and the North Dakota Forest Service — Derek Lowstuter, North Dakota Forest Service	8
1:30 - 2:30	 Biochar 101 — Kelpie Wilson, Wilson Biochar Associates Biochar history Biochar physics and chemistry Biochar and soil microbial ecology Biochar and the carbon cycle 	
2:30 - 3:00	Break	
3:00 - 4:00	 Biochar Applications – Kelpie Wilson Biochar for soil remediation and regeneration 	10
	Biochar for water management	10 10
	Biochar and trees	
	 Biochar for organic waste stream management 	
	Biochar and livestock	
	Biochar and no-till agriculture	

- Biochar and no-till agriculture
- 4:00 4:30 Barriers to Biochar Adoption Ghasideh Pourhashem, Asst. Prof. NDSU Department of Coatings and Polymeric Materials (CPM) and Center for Sustainable Materials Science (CSMS)
- 4:30 5:00 Discussion and Wrap-up

Tuesday, April 16

8:00 - 8:30 Registration and Introductions

- 8:30 10:00 How to Make Biochar Kelpie Wilson
 - Pyrolysis overview
 - Centralized biochar production options
 - Mobile biochar production options
 - Biochar from windbreak trees
 - Biochar job planning and estimating
- 10:00 10:30 Break
- 10:30 3:30 Biochar Production Session (with lunch break in the field)
- 3:30 4:00 Break
- 4:00 5:00 Biochar characterization in the lab
 - pH testing of a variety of biochars and biochar composts
 - Evaluating biochar water holding capacity

Wednesday, April 17

- 8:00 8:30 Registration and Introductions 8:30 - 10:00 Biochar on the Great Plains -Roundtable Discussion with NRCS staff and Great Plains producers who are making and using biochar. Participants TBD. Topics include: Biochar application methods
 - Biochar and no-till
 - Biochar and cover crops
 - Biochar and composting
 - Biochar and livestock
 - Biochar and greenhouse production
 - Biochar production systems
- 0:00 10:30 Break
- 0:30 noon Biochar Brainstorm a moving discussion visiting parts of the Menoken Farm operation to illustrate and discuss ways that biochar could be used on farms on the Great Plains
- 12:00 12:15 Wrap-up and goodbyes

Thursday, April 18

Optional Large Scale Biochar Production Session We may convene on Thursday morning to try a new biochar production method on large windbreak burn piles at a neighboring farm. Details - TBD

* Schedule subject to change

Made available through partnership between:

USDA - Natural Resources Conservation Service USDA - Forest Service NDSU - North Dakota Forest Service Burleigh County Soil Conservation District - Menoken Farm Wilson Biochar Associates



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