# Intensive Biochar Workshop at Menoken Farm — AGENDA



## Monday, April 15

12:30 - 1:00	Registration and Introductions	
1:00 - 1:30	<b>Biochar and the North Dakota Forest</b> <b>Service</b> — Derek Lowstuter, North Dakota Forest Service	8
1:30 - 2:30	<ul> <li>Biochar 101 — Kelpie Wilson, Wilson</li> <li>Biochar Associates</li> <li>Biochar history</li> <li>Biochar physics and chemistry</li> <li>Biochar and soil microbial ecology</li> <li>Biochar and the carbon cycle</li> </ul>	
2:30 - 3:00	Break	
3:00 - 4:00	<ul> <li>Biochar Applications – Kelpie Wilson</li> <li>Biochar for soil remediation and regeneration</li> </ul>	10
	Biochar for water management	10 10
	Biochar and trees	
	<ul> <li>Biochar for organic waste stream management</li> </ul>	
	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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