# 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** 

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

Biochar for water management

Biochar and trees

Biochar for organic waste stream management

Biochar and livestock

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 16

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

10:00 - 10:30 Break

10:30 - 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 17

**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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