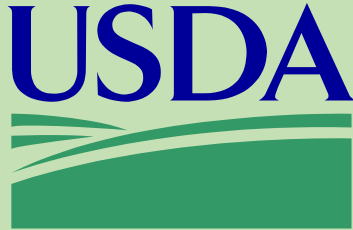


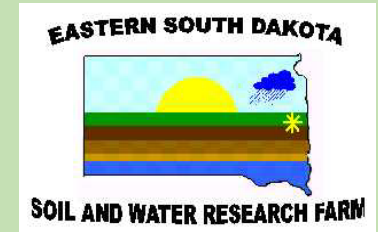
# EASTERN SOUTH DAKOTA SOIL AND WATER RESEARCH FARM

## 29th ANNUAL FIELD DAY



Tuesday, July 11, 2023

9:30 a.m. Registration  
10:00 a.m. Intro and Poster Session  
10:30 a.m. Walking Tour  
12:00 Complimentary Meal



### *Integrated Cropping Systems Research at NCARL*

#### **POSTER SESSION**

**Pest and beneficial insect research projects**  
*Eric Beckendorf, ARS*

**Crop rotation shapes soil microbial communities**  
*Sonya Erlandson and Mike Lehman, ARS*

**Which oat? How varieties affect agronomics and economics**  
*Patrick Ewing, ARS*

**History and purpose of the Eastern South Dakota Soil and Water Research Farm**  
*Gordon Heber, ESDSWRF*

**History and impact of the Alternative Rotation Experiment**  
*Shannon Osborne, ARS*

**Monsters inside me: beneficial nematodes for insect pest management**  
*Adrian Pekarčík, ARS*

#### **POSTER SESSION (CONTINUED)**

**Bumble bees in agroecosystems: current and future research**  
*Karl Roeder, ARS*

**Restoring productivity to severely eroded soils by replacing topsoil**  
*Sharon Schneider and Apurba Sutradhar, ARS*

**Soil microbes, the dirty secrets, supporting soil and plant health**  
*Chuntao Yin, ARS*

#### **WALKING TOUR DEMONSTRATIONS**

**Building a better oat**  
*Patrick Ewing, ARS*

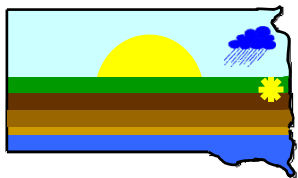
**Belowground biodiversity**  
*Adrian Pekarčík, ARS*

**Plant-soil Feedbacks**  
*Chuntao Yin, ARS*

For more information contact USDA-ARS 605-693-3241

<https://www.ars.usda.gov/plains-area/brookings-sd/ncarl/>

## EASTERN SOUTH DAKOTA



## SOIL AND WATER RESEARCH FARM



### Directions to the Research Farm

**3714 Western Avenue:** Exit 133 off I-29 (Hwy 14 Bypass), 2.5 miles west to Western Avenue; 1.5 miles north.

**Rain?** Presentations will be held in the machine shed at the Farm.