



BSE Boot Camp

Training for UWEX Agents on
Biological Systems Engineering Topics

When:

November 2, 2017
12:00 p.m. to 5:00 p.m.
November 3, 2017
8:00 a.m. to 1:00 p.m.

Where:

Arlington Agricultural Re-
search Station Public Events
Building (Nov. 2)
Comfort Inn and Suites,
DeForest, WI (Nov. 3)

Speakers:

Brian Luck, Cheryl Skjolaas,
John Shutske, Becky Larson,
David Kammel, Brian Holmes,
Doug Reinemann,
Scott Sanford, John Panuska,
Jessica Drewry, and Abi Jensen

Register:

Register for this event online at
<https://goo.gl/forms/NJDu8VRAnSbDD0rp2>
Limited to 25 Participants

November 2-3, 2017

Attend to Receive Hands-On
Training and Interact Directly with
BSE Specialists

This event will provide an opportunity to roll up your sleeves, get some practice with hands-on training modules, ask lots of questions and learn from colleagues, build new partnerships and networks, and learn about exciting opportunities and projects happening in BSE.

(Topics on Page 2)



**Biological Systems
Engineering**
UNIVERSITY OF WISCONSIN-MADISON

**UW
Extension**
University of Wisconsin-Extension

Topics

- **When the Online Calculator Fails (Drewry):** A quick refresher in unit conversions and linear interpolation for solving common agricultural problems.
- **AgrAbility of Wisconsin Introduction and Update (Jensen/Luck):** Update on AgrAbility, a program assisting farmers with limitations and disabilities
- **Manure Gas Monitoring Safety (Sand Separator Tour) (Skjolaas, Shutske, Larson):** Update on manure gas dangers in enclosed and non-enclosed spaces including new types of manure facilities, hands-on experience with gas monitors, and where electronic monitoring fits within the “Safety Hierarchy”.
- **Yield Monitor Calibration (Luck/Drewry):** A hands-on training session on yield monitor calibration.
- **Soil Moisture Measurement and Irrigation Scheduling (Panuska/Sanford):** An introduction to soil water dynamics, the use of irrigation scheduling and tools to help with the calculations. Also the use of soil moisture sensors to supplement irrigation management.
- **Milking Parlor Management (Reinemann):** How to retrieve, analyze and use data from milking parlors to assess milking machine and worker performance.
- **Positive Pressure Tube (PPT) Ventilation System Design (Kammel):** Introduce agents to the spreadsheet design tool and assess multiple scenarios for PPT Design.
- **Ag. Data Software Training for Soil Sampling Data Collection and Mapping (Luck/Drewry):** Work directly with AgLeader SMS to enter and map soil sample results.
- **Post-harvest Grain Drying and Storage (Sanford):** This session will look at the fundamentals of grain drying, how to reduce drying costs, and how to manage and condition grain in storage so that it maintains quality until it can be marketed.
- **Transition Cow Facility Design (Kammel):** Introduce agents to the use of several spreadsheets for planning cow groups in a transition cow facility design.
- **Robotic Milking Overview (Reinemann):** Review of machines on the market, barn design considerations and economics of robotic milking. Suggestions on the type of farms that make good and not-so-good prospects for success with robots.
- **Silage Storage and Leachate Considerations (Holmes and Larson):** Learn the importance of forage moisture content for making good silage and the basic guidelines for managing silage leachate and contaminated runoff to comply with current guidelines.
- **The Future of Agriculture (A 10,000 ft. View) (Shutske):** Discover what we are learning and doing to help ag. move toward being digitally-driven with data collected, processed and turned into decisions and action via big data, AI and automation.



Register now, space is limited!

Registration deadline is **October 20, 2017!**

Event Website:

<https://wimachineryextension.bse.wisc.edu/bsebootcamp>