



**NORTHEAST IOWA
COMMUNITY COLLEGE**

Norman Borlaug Heritage Farm Visit Day

Date: Friday, October 11, 2019 | Time: 9:30am-2:00pm (Lunch & Snacks Provided)

Location: Norman Borlaug Home/Farm | 19518 200th St, Cresco, IA

Limited to 90 high school students! Register ASAP!

Agenda (students will rotate through 6 – 30 minute sessions):

9:30-9:45 Welcome by Norman Borlaug Foundation and NICC President Dr. Wee
9:45-10:15 Session 1
10:20-10:50 Session 2
10:55-11:25 Session 3
11:25-12:05 LUNCH (everyone)
12:05-12:35 Session 4
12:40-1:10 Session 5
1:15-1:45 Session 6
1:45-2:00 Closing

Sessions

~Using Drones to Observe Farm Practices - Tad Mueller (NICC Faculty)

Students will be introduced to drones, an overview of their use and related laws, and get an opportunity to fly a drone to view the Borlaug Farm.

~Water Quality & Soil Health - Dale Dennler (Howard-Winn Faculty)

Explore, with hands-on activities, soil properties and factors influencing them in Iowa. Examine local water samples for signs of aquatic life and how they can be affected by surrounding soil health.

~Rainfall Simulator - Winneshiek County NRCS

A rainfall simulator trailer will be used to demonstrate erosion on different types of soil and tillage. In addition to showing clearly the runoff generated on each soil type, this shows what goes into a tile system beneath each sample.

~Animal Nutrition and Grazing Management - Dave Lawstuen (NICC Faculty)

Improving soil health is foremost on the minds of livestock producers today. One of the most efficient ways to accomplish this is to utilize cover crops in conjunction with corn silage production. Not only do cover crops improve the soil but they are a valuable source of nutrients for our animals as well.

~Iowa Corn Mobile Educational Trailer

The Iowa Corn Promotion Board has designed and built a mobile educational unit looking to travel to your next event! Learn how corn is grown by farmers right here in Iowa. From the food on your table to the gas in your car, the classroom on wheels is a fun, interactive experience for Iowans of all ages!

~John Deere GPS/Mapping – Neil Grube, Matt Johnson, Rodney Necker (John Deere Faculty)

A John Deere Gator equipped with the latest technology of Precision Ag will be used to discuss the benefits of using the products for field prep, planting, applying and harvesting. The components that make things like Auto Steer, Mapping, Machine Information and Wireless Data Transfer happen will be shown.

QUESTIONS? Contact Stephanie Dennler dennlers@nicc.edu
REGISTER NOW! [CLICK HERE FOR ONLINE REGISTRATION!](#)

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Soil health plays an important role in achieving your field's long-term potential. Farmers, educators and industry persons are invited to learn from local specialists on a variety of ways to manage soil. The field day will be held via Zoom on Tuesday, Jun. 30 from Noon-1p.m. A recording of the presentations will also be available following the field day.

Neil Sass, Area Resource Soil Scientist with USDA-NRCS, will share what different plants can do for your soil and how it affects the long-term productivity potential. Tad Mueller, Agriculture Instructor at Northeast Iowa Community College (NICC), will be presenting on the current applied research and crop management demonstrations happening at Iowa's Dairy Center and NICC. These include projects on soil health, nitrogen management and diversified crop plantings.

Please join the meeting with the following information:

- Join via Zoom: <https://nicc.zoom.us/j/92641804289>
- Join by phone: +1 312 626 6799
- Meeting ID: 926 4180 4289

Participants are encouraged to fill out a brief survey before the field day which can be found at <https://forms.gle/uQENK1qutGcs3Xnt8>.

The field day is hosted in partnership by the Northeast Iowa Dairy & Agriculture Foundation, NICC and USDA-NRCS. For more information, please contact Mariah Busta at (563) 534-9957, ext. 8107 or info@iowadairycenter.com.

2021 SARE Faculty Workshop Morning Agenda

- 8:00 a.m. Rainfall Simulator
Demonstration with the Rainfall Simulator provided by NRCS Office (still to be confirmed)
- 9:00 a.m. Soil Sampling
How to properly take a soil sample, and apps that can be used for grid and zone sampling. This includes a packet of materials for teaching with the Web Soil Survey including a PowerPoint, YouTube videos, and a quiz.
- 9:30 a.m. Bulk Density
What is bulk density, why is it important, and how do we measure it. Includes a packet of materials for teaching including a PowerPoint, YouTube videos, and a quiz.
- 10:00 a.m. Field Activities
- Taking Soil Samples
 - Measuring Soil Compaction
 - Taking a Bulk Density Sample
- 11:00 a.m. Soil Respiration, Calculating Bulk Density, and Estimating Organic Matter
hands on activity
- 11:30 a.m. Working Lunch - Covered by the SARE Grant
- 11:35 a.m. Web Soil Survey
How to use the web soil survey to better understand the land we work. Includes a packet of materials for teaching with the Web Soil Survey including a PowerPoint, YouTube videos, and a quiz.

Afternoon Agenda

- 12:30 p.m. Let's learn about confinement barn siting!
Becky Sexton, Twin Lakes Environmental Services
- 1:20 p.m. Break
- 1:30 p.m. Manure Spill Response and Investigations, what you have always wanted to know about the process.
Amber Sauser and Brian Jergenson Iowa Department of Natural Resources.
- 3:00 p.m. Foam, Fire and Viscosity, understanding the opportunities and challenges of deep pit management.
Dan Lane
- 4:00 p.m. Wrap up

Additional Activities Required to Obtain CEU's

Pre-workshop:

- Take the following quizzes:
 - [Soil Sampling Quiz](https://forms.gle/23JzoWtQyd5G2yaP6), (<https://forms.gle/23JzoWtQyd5G2yaP6>)
 - [Bulk Density Quiz Part I](https://forms.gle/ZBfhjZztXiKFRKqN6), (<https://forms.gle/ZBfhjZztXiKFRKqN6>)
 - [Bulk Density Quiz Part II](https://forms.gle/Xv73m9DRPSpWFfbA6), (<https://forms.gle/Xv73m9DRPSpWFfbA6>)
 - [Soil Respiration Quiz](https://forms.gle/Sq61KVRH7Qbh3jkm6), (<https://forms.gle/Sq61KVRH7Qbh3jkm6>)
 - [Web Soil Survey Quiz](https://forms.gle/jwfCsd3TgG5PgMzt9), (<https://forms.gle/jwfCsd3TgG5PgMzt9>)
- Complete the Pre-Survey: <https://forms.gle/cvCnPHp4Ld1yfwkK6>

Post Workshop:

- Complete the Post Survey: <https://forms.gle/kxrCaCCiY5nfxHXf7>
- Write 25 quiz questions related to one or more of the activities covered during the workshop or find a website or publication related to the workshop activities and create a quiz or worksheet for that reference.
- Develop 10 open ended discussion questions related to the workshop topics for classroom interaction.
- Interview a producer or ag business individual about soil health and/or manure management. Record a video or audio of the interview. Some suggested questions:
 - Soil Health has become a hot topic in agriculture in recent years. When someone mentions Soil Health, what comes to your mind?
 - Why do you feel there has been increased interest in soil health in recent years?
 - Do you think this will continue to be an interest in future years or is it just a fad?
 - What are some things you feel can be done to improve soil health?
 - What are your feelings about the regulations related to manure management?
 - What are your feelings about the regulations regarding confinement operations?
 - What can be done to reassure the public that manure is being properly handled in your area?

Soil bucket materials provided to participants in workshop

- 3" outside diameter steel sections 5" long for measuring bulk density
- "Cap strength" neoprene 2-lb dumbbell, or rubber mallet with wood handle and 2" x 4" wood block for driving bulk density ring into soil
- Color Chart for Estimating Organic Matter
- Solvita Field CO2 Test Kit (respiration kit)
- One Piece Step Probe



Madeline Wagner <wagnerma@nicc.edu>

NICC Summer Agriculture Instructor Faculty Workshop

5 messages

Bruce Bearinger <bearingerb@nicc.edu>

Thu, Apr 15, 2021 at 2:11 PM

To: alisha.smith@wdbqschools.org, bpillard@oelwein.k12.ia.us, dmausser@beckman.pvt.k12.ia.us, James Russ <j_russ@new-hampton.k12.ia.us>, jbeitz@claytonridge.k12.ia.us, jdillon@oelwein.k12.ia.us, jeffedwards@maquoketa-v.k12.ia.us, Jessica O'Connor <joconnor@allamakee.k12.ia.us>, Joni Bruvold <joni.bruvold@decorah.k12.ia.us>, luke.rauen@wdbqschools.org, Mike Adams <madams@howard-winn.k12.ia.us>, mbond@central.k12.ia.us, Melissa Hageman <mhageman@swinn.k12.ia.us>, Morgan Nosbisch <morgan.nosbisch@riceville.k12.ia.us>, nzuercher@postville.k12.ia.us, Ryan Holthaus <rholthaus@nfv.k12.ia.us>, rlstrong@nfv.k12.ia.us, rrankin@kee.k12.ia.us, rstecklein@starmont.k12.ia.us, sarah.wille@mflmm.k12.ia.us, spfaffle@turkey-v.k12.ia.us, Tammy Schnieders <tammyschnieders@w-delaware.k12.ia.us>, taylor.currie@wdbqschools.org
Cc: Tad Mueller <muellert@nicc.edu>, Daniel Lane <laneda@nicc.edu>, Kristi Creek <creekr@nicc.edu>, Madeline Wagner <wagnerma@nicc.edu>, Kathleen Nacos-Burds <nacos-burds@nicc.edu>

NE Iowa Agriculture Instructors,

In a previous email I asked you to save June 7 for our NICC Summer Agriculture Instructor Faculty workshop. This will now be our confirmed date for our program. I apologize to those who cannot make that day work. Since this program is being paid for through our SARE grant, we are required to focus on the two subjects of soil health and nutrient management. Our faculty members Tad Mueller and Dan Lane will be leading the morning and afternoon sessions respectively.

The program will consist of individual activities before the June 7 program as well as activities after the program. This is necessary in order to generate 15 hours of programming which is the minimum for 1 Teacher Licensure Renewal Credit (TLR). Those activities and assignments are listed on the attached itinerary document.

Attached you will find the itinerary for the morning and afternoon programs. A working lunch will be provided. As you can see by the attached information, there is a nice array of equipment supplies, and information that will be take-home items for every fully registered participant. Also, much of the program will be conducted outside to accommodate demonstrations and hands-on learning. Therefore, we have selected June 14 as the rain date. If we choose to postpone to the rain date, we will email all NE Iowa ag teachers by 5 PM on Monday June 6, 2021.

You can participate in the program even if you do not need the one credit TLR, but you must complete both the morning and afternoon session as well as all required work to be awarded the take-home materials. You are welcome to simply attend the morning or afternoon sessions, but you will be on your own for lunch and still must register so that we can assure that our accommodations are COVID safe. Also, NICC requires that all participants wear a face covering for all parts of the program.

To register for the program, please use the link below. There is a limit of 12 full participants for the program and all registrations must be received by May 15, 2021. If you have questions, feel free to call my cell phone at 319-238-1188.

[Register for NICC Soil Health and Nutrient Management Course](#)

After your registration for the Soil Health and Nutrient Management Course, use this link to register for the TLR credit through Keystone AEA 1. The fee is \$35.

[Keystone AEA 1 Registration for Licensure Renewal Credit](#)

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 **Finale 2021 SARE Faculty Workshop Agenda (1).pdf**
108K

Madeline Wagner <wagnerma@nicc.edu>
To: Bruce Bearinger <bearingerb@nicc.edu>, Melissa Elsbernd <elsberndmel@nicc.edu>

Thu, Apr 15, 2021 at 2:13 PM

Bruce,

I've heard this workshop referenced with both the SARE and NRCS grants -- are we splitting costs? Will material that is covered by applicable to both?

Thanks for helping to clarify!

Madeline Wagner

Associate Director of Grants and Contracts
she/her/hers

Northeast Iowa Community College

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Melissa Elsbernd <elsberndmel@nicc.edu>
To: Madeline Wagner <wagnerma@nicc.edu>, Bruce Bearinger <bearingerb@nicc.edu>

Thu, Apr 15, 2021 at 2:17 PM

My understanding is SARE will be covering the condensed version soil health buckets for high school instructors and any of our faculty development time for the workshop (Personnel and Fringe costs).

NRCS will be covering any other field day expenses - speaker costs, working lunch, materials/supplies. Or is there a separate June field day from the ag high school PD day?

Not sure on how participants will be counted - can they be for both or not?

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Bruce Bearinger <bearingerb@nicc.edu>
To: Melissa Elsbernd <elsberndmel@nicc.edu>
Cc: Madeline Wagner <wagnerma@nicc.edu>

Thu, Apr 15, 2021 at 2:27 PM

Yes Melissa that is correct. These are two separate activities. Just to make sure, I went through the email, links and attachments and we only referenced the SARE grant.

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Madeline Wagner <wagnerma@nicc.edu>
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Cc: Melissa Elsbernd <elsberndmel@nicc.edu>

Thu, Apr 15, 2021 at 2:34 PM

Right but if you're planning to cover costs with NRCS -- which I know we've discussed food that I thought was for this workshop? - then we need to make sure we can clearly tie some sessions to that grant too.

Madeline Wagner

Associate Director of Grants and Contracts
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TRI-STATE AG & DAIRY EXPO

Farmer + Community Field Day

Thursday, Sept. 16
Iowa's Dairy Center, Calmar

- 12:00 PM Lunch**
Meal is provided by Lynch Family Companies and free for all attendees
- 1:00 PM Grain Bin Rescue Demonstration**
Dan Neenan, National Education Center for Agricultural Safety
- 1:30 PM Alternative Forage Production**
Daniel Olson, Forage Innovations