



# Advanced Crop Advisers Workshop

## Feb. 11-12, 2020

### Holiday Inn

I-29 and 13th Ave. S., Fargo

Sponsored by



UNIVERSITY OF MINNESOTA  
**EXTENSION**

Driven to Discover<sup>SM</sup>

## Audience

This is an advanced workshop for agricultural professionals, including crop consultants, agronomists, Extension agents and agribusiness representatives, who advise farmers with recommendations on crop production.

## Agenda

### Tuesday, Feb. 11

- 9 a.m. **Registration** (Atrium) and **refreshments** (Royale)
- 9:45 a.m. **General Session: Introduction** (Royale)
- 10 a.m. **General Session: Review of Trade/Tariff Issues and Impact on Agriculture** (Royale)  
*Frayne Olson*  
A review will be provided on the status of current trade and tariffs on agriculture. (0.5 continuing education unit [CEU] – crop management)
- 11 a.m. **Concurrent Sessions: 1) Wheat, 2) Corn, 3) Precision Ag and 4) Goos** (Participants will be able to attend three of five concurrent sessions during the day.)
- 12:30 p.m. **Lunch and General Session: Plowing New Ground: Understanding and Responding to Rural Stress Concerns** (Royale)  
*Sean Brotherson and Monica McConkey*  
Several years of poor commodity prices, challenging weather conditions and other factors have combined to ramp up the stress levels for agricultural professionals. Learn from two seasoned professionals about tools for improving your own resilience, how to spot warning signs of stress, and how to assist farmers you work in connecting with useful resources in times of stress. (0.5 CEU – professional development)
- 1:45 p.m. **Concurrent Sessions: 1) Stress, 2) Corn and 3) Precision Ag**

- 3:15 p.m. **Break**
- 3:30 p.m. **Concurrent Sessions: 1) Wheat and 2) Goos**
- 5 p.m. **Adjourn**

### Wednesday, Feb. 12

- 8 a.m. **Breakfast** (Royale) and **registration** (Atrium)
- 8:30 a.m. **General Session: Top Five Ways to Cut Farm Expenses in Challenging Times** (Royale)  
*Betsy Jenson, George Richman and Jeremy Wald*  
Discussion will provide ideas and strategies to reduce farm expenses in a challenging income environment. (0.5 CEU – crop management)
- 9:30 a.m. **Concurrent Sessions: 1) Soil, 2) Insects and 3) Bean Disease** (Participants will be able to attend two of three concurrent sessions during the day.)
- 11 a.m. **Break**
- 11:15 a.m. **Concurrent Sessions: 1) Soil, 2) Insects and 3) Bean disease**
- 12:45 p.m. **Lunch and recognition of the North Dakota Certified Crop Adviser of the Year** (Royale)
- 1:30 p.m. **Workshop ends**

## CEUs

Certified crop advisers will have the opportunity to receive 9 continuing education units by attending both days of the workshop.

## Hotel

The following hotel is offering discounted room rates for workshop participants. If making a room reservation, identify yourself as an Advanced Crop Adviser Workshop participant.

Holiday Inn: 877-282-2700 or 701-282-2700  
[www.fargohi.com](http://www.fargohi.com)

# Concurrent Sessions

## Tuesday, Feb. 11

### ■ What the Wheat?! (Executive Room)

*Ruth Dill-Mackey, Daryl Ritchison and Jochum Wiersma*

The 2019 growing season presented a lot of challenges for small-grain production. These challenges include plant diseases and falling number issues. This presentation will help us understand what happened to the 2019 small-grain crop from a plant pathology, plant physiology and weather standpoint.

(1 CEU – crop management; 0.5 CEU – pest management)

### ■ When the Growing Season Ends Before the Corn Crop is Mature (Board Room)

*Emerson Nafziger and Joel Ransom*

The 2019 corn crop was planted earlier in North Dakota than in other states (including Illinois), but some fields failed to reach maturity, and many fields still had wet grain when it froze in October. Wet (including immature) grain and poor fall weather brought a long, slow harvest period. We'll look at the slow grain filling and late maturity that often follows late pollination as temperatures cool going into the fall, and how this affects grain development and quality.

(1.5 CEUs – crop management)

### ■ Development of Management Zones and the Use of Active/Passive Sensors in Crop and Crop Nutrient Site-specific Management (Directors Room)

*Yuxin Miao*

Ideas will be presented for development of field management zones. Also, research will be reviewed on the use of active and passive sensors for use in crop and crop nutrient management.

(1.5 CEUs – nutrient management)

### ■ Dr. Goos' Greatest Hits (Conference Room)

*Jay Goos*

An overview of 40 years of research will be presented with topics including nitrogen (N) and water management in western North Dakota, urease and nitrification, small-grain N, phosphorus and chloride fertility, iron deficiency chlorosis and soybean N fixation.

(1.5 CEUs – nutrient management)

### ■ A Conversation About the Realities of Farm Stress and Health (Executive Room)

*Sean Brotherson, Monica McConkey and panelists*

This session, moderated by a Red River Farm Network broadcaster, will feature panelists with knowledge and experience in rural stress and health. Panelists will share briefly on pertinent issues related to stress among farmers and ranchers. This session will include time for questions from attendees, real stories of dealing with difficult situations and proven strategies.

(1.5 CEU – professional development)

## Wednesday, Feb. 12

### ■ Is There a Better Soil Health Test Than a Shovel? N Fate With Cover Crops (Executive Room)

*Caley Gasch and Dave Franzen*

This session will review numerous soil health tests and NDSU research on cover crop N contributions in crop rotation.

(1 CEU – soil and water management; 0.5 CEU – nutrient management)

### ■ 2019 Insect Invasion (Board Room)

*Erin Hodgson and Bruce Potter*

Green cloverworms, thistle caterpillars, grasshoppers, spider mites, bean leaf beetles, gall midges and European corn borers were threats this past crop season. The row crop insect complex and management will be reviewed.

(1.5 CEUs – pest management)

### ■ White-out (Sclerotinia) and Soybean Stem Disease (Directors Room)

*Sam Markell and Michael Wunsch*

NDSU research and recommendations to manage sclerotinia in soybeans and dry beans will be shared. Also, results of a NDSU field survey on soybean stem diseases, including management strategies, will be discussed.

(1.5 CEUs – pest management)

# Workshop Instructors

|                  |  |
|------------------|--|
| Sean Brotherson  | NDSU, Fargo  |
| Dave Franzen     | NDSU, Fargo  |
| Caley Gasch      | NDSU, Fargo  |
| Jay Goos         | NDSU, Fargo  |
| Erin Hodgson     | Iowa State University, Ames                          |
| Betsy Jenson     | Farm Business Management, Thief River Falls, Minn.   |
| Ruth Dill-Mackey | University of Minnesota, St. Paul                    |
| Sam Markell      | NDSU, Fargo  |
| Monica McConkey  | Eyes on the Horizon Consulting, Detroit Lakes, Minn. |
| Yuxin Miao       | University of Minnesota, St Paul                     |
| Emerson Nafziger | University of Illinois, Urbana                       |
| Frayne Olson     | NDSU, Fargo  |
| Bruce Potter     | University of Minnesota, Lamberton                   |
| Joel Ransom      | NDSU, Fargo  |
| George Richman   | Farmer, Tower City, N.D.                             |
| Daryl Ritchison  | NDSU, Fargo  |
| Jeremy Wald      | Control Crop Consulting, Rugby, N.D.                 |
| Jochum Wiersma   | University of Minnesota, Crookston                   |
| Michael Wunsch   | NDSU, Carrington, N.D.                               |

## Workshop Planning Committee

|                                  |  |
|----------------------------------|--|
| Greg Endres<br><i>co-chair</i>   | 701-652-2951<br>NDSU Extension, Carrington, N.D.             |
| Angie Peltier<br><i>co-chair</i> | 218-281-8692<br>University of Minnesota Extension, Crookston |
| Jerry Arneson                    | Bell Bank, Moorhead, Minn.                                   |
| Darren Dunham                    | Control Crop Consulting, Maxbass, N.D.                       |
| Dave Franzen                     | NDSU, Fargo  |
| Robbie Holthusen                 | Premier Crop, Horace, N.D.                                   |
| Chris Johnson                    | Control Crop Consulting, Horace, N.D.                        |
| Brian Kuehl                      | CHS Agronomy, Fargo  |
| Sarah Lovas                      | Lovas Consulting, Hillsboro, N.D.                            |
| Adam Spelhaug                    | Peterson Farms Seed, Harwood, N.D.                           |
| Evan Twedt                       | Dekalb/Asgrow, McHenry, N.D.                                 |
| David Willis                     | Agassiz Crop Management, Thief River Falls, Minn.            |

## Preregistration

**Preregistration (including fee payment) is required by Feb. 3. The workshop fee is \$140 per person (\$100 for one-day attendance). The workshop is limited to 150 people. Preregistrations will be accepted on a first-come, first-served basis. The event has filled before the preregistration deadline in recent years.**

**Walk-in registrations will not be accepted.**



## Preregistration Form Advanced Crop Advisers Workshop

Electronic registration and credit card payment can be submitted at [www.tinyurl.com/CRECstore](http://www.tinyurl.com/CRECstore)

or

[https://epayment.ndus.nodak.edu/C22800\\_ustores/web/store\\_main.jsp?STOREID=29&SINGLESTORE=true](https://epayment.ndus.nodak.edu/C22800_ustores/web/store_main.jsp?STOREID=29&SINGLESTORE=true)

(Please print or type)

Name(s) \_\_\_\_\_

\_\_\_\_\_

Organization \_\_\_\_\_

\_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_

ZIP \_\_\_\_\_ Phone ( ) \_\_\_\_\_

Email \_\_\_\_\_

**Fee:** \$140 per person required by Feb. 3.

Fee for one day attendance is \$100.

If one day, please indicate day of attendance:

Feb. 11 or  Feb. 12

**Late fee** (after Feb. 3) is \$200 (\$150 one day)

**Please make check payable to:**

Advanced Crop Advisers Workshop

**Return form and fee to:**

Advanced Crop Advisers Workshop  
c/o Linda Schuster  
Carrington Research Extension Center  
PO Box 219  
Carrington ND 58421

**For more information, contact Linda Schuster:**

Phone: 701-652-2951

Email: [linda.schuster@ndsu.edu](mailto:linda.schuster@ndsu.edu)

*Requests for accommodations related to disability should be made to Linda Schuster at 701-652-2951 by Jan. 3, 2020.*