

# FARMSMART EXPO 2018


THURSDAY  
JULY 12, 2018  
8:30 AM – 4:00 PM



## Agenda

1. **Soil Diagnosing** - *Adam Hayes, Anne Verhallen, OMAFRA*
2. **New Planter Technology – The iCubed Water Jet Planter** - with *James Dyck, Ben Rosser, OMAFRA*
3. **The Need For Sulphur in Ontario Crops** - *John Lauzon, U of G and Jake Munroe, OMAFRA*
4. **Growing Dry Bean Variety Mixtures to Increase Crop Resiliency and Capture Ecosystem Services** - *Peter Pauls, U of G and Meghan Moran, OMAFRA*
5. **Getting Bang for Your Manure Buck with In-Crop Drag Hose Application** - *Chris Brown, OMAFRA*
6. **DIY Sensors for Solving on Farm Data Questions** - *John Van de Vegte, OMAFRA Engineer*
7. **Current Weed Control Options and Weed Control Strategies!** - *Clarence Swanton UG-PAg and Mike Cowbrough OMAFRA*
8. **Soil Compaction Primer! Did we do the right things this spring?** - *Peter Johnson Real Agriculture, Alex Barrie OMAFRA and Eric Brubacher OK Tire Elmira*

Join us for our annual interactive field day at the Elora Research Station, University of Guelph, 6182 2 Line E, Ariss. Lunch Provided by the Alma Ladies.

Register by Monday July 9<sup>th</sup> at [www.farmsmartconference.com](http://www.farmsmartconference.com) to get our pre-registration fee. Keep in touch  @FarmSmart18 Walk ins are always welcome!



**1. Soil Diagnostics. - Adam Hayes and Anne Verhallen, OMAFRA**

We will be setting up a number of situations, more than we need so we have some good stuff to work with. They will include soil compaction, sidewall compaction, nutrient and pH issues, different levels of organic matter showing the colour and structure, soil profiles, possibly some cover crop seedlings to show what they may look like as volunteer in the spring and possibly more.

**2. New Planter Technology – The iCubed Water Jet Planter - James Dyck and Ben Rosser, OMAFRA**

This new concept in planting uses high pressure water jet to create the seed furrow and will compare to conventional planter units. We will explore how the two compare in cutting residue, forming a seed trench, placing the seed and closing the seed trench. How does this system change the paradigm of crop planting?

**3. The Need for Sulphur in Ontario Crops - John Lauzon UG-SES and Jake Munroe OMAFRA**

There continues to be lots of antidotal talk about the need for sulphur in fields crops across Ontario. This session will look at S plots in Soys, and Cereals and talk about other work in Corn and Alfalfa based on research trials that are completed or ongoing.

**4. Growing Dry Bean Variety Mixtures to Increase Crop Resiliency and Capture Ecosystem Services - Peter Pauls, UG-PAG and Meghan Moran OMAFRA**

Exploring the feasibility of increasing genetic diversity in cropping systems by using mixtures of common bean varieties instead of monocultures. Such studies are examining the potential that cultivar mixture cropping has benefits over monoculture cropping in controlling disease, increasing water use efficiency and increasing yield stability. The results from the first year showed that there is no yield penalty to using mixtures instead of monocultures.

**5. Getting Bang for Your Manure Buck with In-Crop Drag Hose Application - Chris Brown, OMAFRA**

In crop application of manure has significant benefits over applications made at other times of the year but has one big disadvantage, how do you make in crop applications without significant trampling and compaction on the crop. Chris will use a demonstration of various crop stage timings of drag hose applications to show the use of this application technology in standing corn.

**6. DIY Sensors for Solving On Farm Data Questions -John Van de Vegte, OMAFRA Engineer**

This will be a hands-on session where small groups will build two types of sensors assembled from easily purchased components and that can be used on the farm to track inputs for operations you are interested in. Two different sensors will be assembled by small groups and they will record and download data. These will be an automated Liquid Level Sensor and an Ammonia Monitoring Sensor.

**7. Current Weed Control Options and Weed Control Strategies! - Clarence Swanton, UG-PAG and Mike Cowbrough OMAFRA**

This session will explore the wide range of weed control options that are available in corn and soybean production systems and show how to optimize the effectiveness of chosen strategies.

**8. Soil Compaction Primer! Did we do the right things this spring? - Peter Johnson Real Agriculture, Alex Barrie OMAFRA and Eric Brubacher OK Tire Elmira**

Using a large self-propelled sprayer with different tire configurations, technologies and inflation pressures, the group will demonstrate dramatically how the choices you make can greatly impact the potential for soil compaction which ultimately impacts the soils ability to deliver production and environmental positive outcomes. They will discuss based on the experiences of this past spring that put added pressure on getting farm equipment into the field.