

Digital Agriculture in Today's Classroom



Day 1 - June 13, 2023

8:30 a.m. - 9:30 a.m.	Welcome	LOCATION
	<p><i>Dr. Greg Lardy, NDSU VP for Agricultural Affairs; Dean, College of Agriculture, Food Systems, and Natural Resources; Director, ND Agricultural Experiment Station; and Director, NDSU Extension</i></p> <p><i>Dr. Leon Schumacher, NDSU Department Chair, Ag and Biosystems Engineering</i></p> <p>Intro to Precision Ag – The beginnings: 1991</p> <p><i>- John Nowatzki and Mike Ostlie</i></p>	Ladd 114
9:30 a.m. - 10:30 a.m.	<p>GIS basics and its application to precision agriculture – Dr. Dave Kramar,</p> <p><i>International Water Institute</i></p>	Ladd 114
10:30 am – 10:40 am	Snack Break	Ladd 114
10:40 a.m. - 11:30 a.m.	<p>Utilizing Today's Digital Ag Tools in a Research Setting – Crop and Livestock – Dr. Rex Sun</p>	Ladd 114
11:30 a.m. - 12:30 p.m.	Working Lunch - Lesson Plan Project	Nueta in Student Union
12:30 p.m. - 1:50 p.m.	<p>Digital Agriculture Data from a Farmer's Perspective</p> <p><i>- Sarah Lovas, Farmer/Agronomist – CK Technology</i></p> <p><i>- Carmel Miller, Farmer/Associate Professor of Agriculture, Technology & Natural Resources - Bismarck State College</i></p>	Ladd 114

Day 1 – June 13, 2023 (continued)

2:10 p.m. – 3:40 p.m.	Tour RDO Product Showcase: What is the Latest Software/Hardware in Digital Ag Today? <ul style="list-style-type: none"> • John Deere - RDO - <i>Tony Kramer, RDO</i> • My Operations Center – <i>Tony Kramer, RDO</i> • 2960 34th St S, Moorhead, MN 	LOCATION
		RDO
4:00 p.m. – 5:00 p.m.	Profit Strategies for Precision Agriculture <i>- Dr. Erik Hanson, Agribusiness and Applied Economics - Extension</i>	Ladd 114

Day 2 – June 14, 2023

7:45 a.m.	Welcome Back & Review <i>Dr. Leon Schumacher</i>	LOCATION
		Ladd 114
8 a.m. - 9:30 a.m.	Tour at Appareo/IntelligentAg – Brenda Wyland <ul style="list-style-type: none"> • 1810 NDSU Research Cir N 	Appareo
10:00 a.m. - 11:30 a.m.	Tour Titan Machinery Product Showcase: What is the Latest Software/Hardware in Digital Ag Today? <ul style="list-style-type: none"> • Case IH – <i>Sam Christianson and Brett Swenhaugen, Titan Machinery</i> • 3314 70th St S, Glyndon, MN 	Titan Machinery, Moorhead Store
11:30 a.m.	Travel to Grand Farm	
11:30 a.m. - 1 p.m.	Working Lunch at Grand Farm – Lesson Plan Project	Grand Farm
1:30 p.m. - 3:30 p.m.	Drone flying/image data collection/data review at Grand Farm Introduction by Grand Farm staff <ol style="list-style-type: none"> 1. <i>Rob Proulx</i> - Drone regulations and setup (Include aspects of Part 107 requirements. Demonstration of setup of several drone types, practice taking off and landing). 2. <i>Paulo Flores</i> - Monitoring crops using drones (Demonstrate drone mapping mission setup, talk about sensors and their purpose. Demonstrate a flight to collect data, show results from previous flight, and discuss how the information can be used. 3. <i>Rex Sun</i> - Drone use in weed management. (Show results of weed mapping. Explain what a prescription map is and how it helps, and demonstrate sprayer droneflight). Robotics in the field - weed identification. Big Weedbot. 	
3:30 p.m.	Wrap up	