



## Drone Use in Animal Agriculture

June 17, 2016

2:30 pm (eastern), 1:30 pm (central), 12:30 pm (mountain), 11:30 am (pacific)

Unmanned aircraft systems, also called drones or unmanned aerial vehicles, are rapidly becoming available to the public. Drones are a tool that can assist with many tasks, and animal agriculture is no exception. Drones can make tasks such as visual inspections, data collection, and small payload operations easier. The Federal Aviation Administration (FAA) regulates drone use, and requires that drones weighing over 0.55 pounds be registered with the FAA. Before operating a drone, one should be familiar with the FAA guidelines and restrictions. An overview of the capabilities of drones, the potential for drone use in animal agriculture, and the current FAA regulations will be presented. *An application for continuing education credit for Certified Crop Advisors (CCAs) and members of the American Registry of Professional Animal Scientists (ARPAS) has been submitted.*



**Dr. Wayne Woldt** is an Extension Specialist at the University of Nebraska, Lincoln and serves as lead for an eXtension Learning Network entitled Unmanned Aircraft Systems in Agriculture. He has developed a research and Extension program on the application of unmanned aircraft systems in agriculture and natural resources. Specific areas of research and education include: deployment and flight operations of unmanned aircraft systems (UAS), performance characterization of autonomous navigation systems, sensor system development, sensor integration, and information management. He has a private pilot certificate, and has been conducting flight operations for 4 years within the context of Federal Aviation Administration (FAA) issued Certificates of Authorization (COAs). In addition, he has developed and delivered numerous Extension educational programs on unmanned aircraft in agriculture. Phone: (402) 472-8656; Email: [wayne.woldt@unl.edu](mailto:wayne.woldt@unl.edu)

**Andreas Wesemann** is currently an Assistant Professor of Aviation at Utah State University. Before retiring from the Air Force, Lieutenant Colonel Wesemann was last assigned as the Director, Seventh Air Force A8 and A9 at Osan Airbase, Republic of Korea. As Director, Plans, Programs and Analyses, Colonel Wesemann supports numerous exercises including ULCHI FREEDOM GUARDIAN and KEY RESOLVE. He manages the Lessons Learned and Programming functions for long term funding programs for Seventh Air Force, and operates the Korea Air Simulation Center. Phone: (435) 797-0680; Email: [andreas.wesemann@usu.edu](mailto:andreas.wesemann@usu.edu)



**Dr. Rhonda Miller** is the Agricultural Environmental Quality Extension Specialist and a Professor in the Agricultural Systems Technology and Education (ASTE) Department at Utah State University. Dr. Miller works with animal waste management, water quality, and air quality issues. She serves as an agricultural liaison for many state committees and actively works to help agriculture remain economically viable while preserving the environment. Her research focuses upon environmental impacts in agricultural systems. Dr. Miller serves as chair of the LPE Environmental Planning group. She received her Ph.D. in Agronomy from Iowa State University. Rhonda will serve as the moderator for this webcast. Phone: 435-797-3772; E-mail: [rhonda.miller@usu.edu](mailto:rhonda.miller@usu.edu)

### How Do I Participate?

On the day of the webcast, go to [www.extension.org/58813](http://www.extension.org/58813) to download the speaker's power point presentations and connect to the virtual meeting room. First time viewers should also follow the steps at: [www.extension.org/8924](http://www.extension.org/8924).

### For More Information

- \* UAS in Agriculture Learning Network <http://www.learnuasag.org/>
- \* Nebraska Unmanned Aircraft Innovation Research and Education (NU-AIRE) <http://nuaire.unl.edu/>

The LPE Learning Center is a project dedicated to the vision that individuals involved in public policy issues, animal production, and delivery of technical services for confined animal systems should have on-demand access to the nation's best science-based resources. See our website at: [lpec.org](http://lpec.org).