Preparing For Unmanned Aircraft Systems (UAS) In Minnesota

April 30, 2014
University of Minnesota – St. Paul Campus
Continuing Education Conference Center
Room 135C
8:00 – 8:30 a.m.
Registration, continental breakfast, and exhibits

8:30 – 9:30 a.m.
Welcome and Why UAS?
Learn about the current state of UAS and related opportunities and challenges. Where is this technology headed? What does this technology mean for the region? What will UAS look like 20 years from now?
Speaker: General Alan Palmer, University of North Dakota

9:30 – 10:30 a.m.
What are UAS?
Hear a general overview of UAS technology, from small to large systems. How do they work? What are the components?
Speaker: Mike Davin, Association for Unmanned Vehicle Systems International, Twin Cities Chapter

10:30 – 10:45 a.m.
Break and exhibits

10:45 – 11:30 a.m.
UAS Impacts on Airspace and FAA Roadmap
Learn how UAS affect airspace, how the FAA is responding, and what rules and regulations the agency is considering.
Moderator: Eric Euteneuer, Honeywell Advanced Technology; Speaker: Randy Willis, Federal Aviation Administration

11:30 a.m. – 12:30 p.m.
Lunch and exhibits

12:30 – 1:45 p.m.
Current Applications and Impacts
Participate in this panel discussion on potential UAS applications. How could UAS be used for agriculture? What are the economic, environmental, and business impacts? What are the potential policy, safety, and regulatory issues? This session’s panel discussion will thoroughly explore this potential UAS use.
Moderator: Mos Kaveh, University of Minnesota; Speakers: Eric Taipale, FourthWing Sensors; Dave Gebhardt, WinField Solutions; David Mulla, University of Minnesota Precision Agriculture Center; Weston Merrick, Minnesota Department of Employment and Economic Development; Ian MacRae, University of Minnesota Crookston
1:45 – 2:30 p.m.  
**North Carolina Case Study: Establishing UAS in the State**
Hear about North Carolina’s UAS test site, including how it was supported and integrated by the state. What are the effects on the local economy and industry of the state?

*Speaker:* Thomas Zajkowski, North Carolina State University

2:30 – 2:45 p.m.  
**Break and exhibits**

2:45 – 3:30 p.m.  
**Where Do We Go From Here? Opportunities and Challenges**
Join this panel discussion on lessons learned, economic impacts and goals of test sites, predictions for the next “big thing,” and the leading opportunities and challenges.

*Panelists:* General Alan Palmer, University of North Dakota; Thomas Zajkowski, North Carolina State University; MATA representative; Charles Samuelson, American Civil Liberties Union; Curt Zoller, Northland Community College; Randy Willis, FAA

3:30 – 4:00 p.m.  
**Wrap up and next steps**
ADDITIONAL UAS RESOURCES

• Federal Aviation Administration: UAS test site operators
  www.faa.gov/about/initiatives/uas/

• Government Technology, “Can FAA Drone Sites Help Planes and UAVs Coexist?”

• National Oceanic and Atmospheric Administration, Unmanned Aircraft Systems Program
  http://uas.noaa.gov/

• International Conference on Unmanned Aircraft Systems
  www.uasconferences.com/index.php

• Gravel Road Condition Monitoring Using Unmanned Aerial Vehicle (UAV) Technology, South Dakota State University, 2010.
  http://gradworks.umi.com/15/04/1504606.html