



Wyoming UAV Symposium

Tuesday, May 17, 2016

- 8:00am Onsite Registration
- 9:00am Welcome and Logistics – Jeff Hamerlinck & Ramesh Sivanpillai, WyGIS
- 9:15am Opening Remarks – Bill Gern, Vice President, Research & Economic Development, University of Wyoming
- 9:30am Keynote Address: ***Natural Resources Applications of UAS Technology*** – Dr. Bruce Quirk, U.S. Geological Survey, Reston, VA – (60 min)
- 10:30am Networking Break
- 11:00am FAA/USS Test Flight Center Experiences – Mark Peters, Oregon State University; Marty Rogers, University of Alaska (60 min)
- 12:00pm LUNCH sponsored by the University of Wyoming Extension
- 1:30 – 2:30pm (60 minutes)
- Big Data Transformation: UAVs make it easy to generate mountains of data, but then what?*** – Trihydro Corporation, Laramie, WY (20 min)
- Small VTOL UAVs: A comparative survey and recent advances*** – Olivier Brousse, 3DVistas, CO (20 min)
- Integrating UAVs in Sanborn for multiple applications*** – Brad Brackel, Sanborn Corporation, CO (20 min)
- 2:30 – 3:00pm Break
- 2:45 – 3:45pm (60 minutes)
- Applications of on-board computer vision for sUAS: From hardware to software, and from theory to practice*** – Oliver Brousse, 3DVistas, CO (20 min)
- UAV - Elevate What's Possible*** – Justin Ness, GDA Engineers, Cody, WY (20 min)
- Have a Safe Flight: The Best Practices for Safe and Successful UAS Missions*** - Chris Leatherman, Aerial solutions of Wyoming (20 min)
- 4:00 – 5:00 pm **Panel Discussion on Industry's perspectives**
- 5:00 – 7:00pm **Hosted Reception** sponsored by GDA Engineers

Wednesday, May 18, 2016

7:30 – 8:30am BREAKFAST & UW Session on Compliance – Ashley Guritza, Research Compliance Attorney, University of Wyoming

8:30 – 9:50am (80 min) – Applications – I

UAS: Actionable Information for Local Decision Makers – Jarlath O’Neil-Dunne, University of Vermont, VT (20min)

Implementing UAS Derived Data to Support Natural Resource Conservation: Lessons from Panama – John McGee, Virginia Geospatial Extension Specialist, Virginia Tech, VA (20 min)

High latitude applications – Marty Rogers, University of Alaska (20 min)

Ecological monitoring with multi and hyperspectral sensors using UAS - conservation and precision agriculture applications – Donna Delparte, Idaho State University (20 min)

9:50 – 10:20am Networking break

10:20 – 11:40am (80 min) – Applications – II

Landfills, Gravel Pits, and Roadways: High-Resolution Surface and Volumetric Surveying - Brian Clarkson, GDA Engineers, Cody, WY (20 min)

Mapping Landfills, Mines, and Vegetation: Lessons Learned in Recent UAS Applications – Chase Fly, Electronic Data Solutions, WY (20 min)

UAS for Transportation Asset Management– Jarlath O’Neil-Dunne, University of Vermont, VT (20min)

UAS Operation: The Difference between Toys and Tools – TriHydro Corporation, Laramie, WY (20 min)

11:40 – 12:00 – Morning session wrap up

12:00pm (60pm) – LUNCH sponsored by the UW Agricultural Experiment Station

Keynote #2: ***The Journey to UAS: UAS in the Context of Remote Sensing*** – Professor Jim Campbell, Virginia Tech, VA

1:30 – DEMO