Tuesday, May 17, 2016

8:00am  Onsite Registration

9:00am  Welcome and Logistics – Jeff Hamerlinck & Ramesh Sivanpillai, WyGISC

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