ALASKA UAS INTEREST GROUP

2015 Annual Meeting – Workshop Agenda

Westmark Conference Center,
813 Noble Street, Fairbanks, AK 99701

Pre-Workshop – Monday, August 31

The U.S. Department of the Interior (DOI) and U.S. Department of Energy (DOE) will be demonstrating the benefits of UAS for geophysical measurements and natural resource monitoring in Alaska and the Arctic with a full day of presentations on August 31st prior to the three day annual meeting. This day is being sponsored by DOI/DOE and is open to the public.

09:30 – 09:45 **Welcome and Introduction**
Dari Dexheimer, R&D Engineer at Sandia National Laboratories
Joe Hardesty, Principal Member of Technical Staff at Sandia Laboratories
Everett Hinkley, National Remote Sensing Program Manager at U.S. Forest Service
Bruce Quirk, UAS Liaison and Scientist, Office of Land Remote Sensing, U.S. Geological Survey

09:45 – 11:15 **U.S. Department of Energy (DOE) - Topics/Presentations**
Dari Dexheimer, R&D Engineer, Sandia National Laboratories
Joe Hardesty, Principal Member, Technical Staff at Sandia Laboratories
Note: ARM = Atmospheric Radiological Measurement
- *The DOE-ARM Program & ARM-Sandia National Laboratories in Alaska*
- *ARM Science Mission, Alaska Sites, Operational Challenges, and Future Plans*
- *Past & Current Missions at ARM Alaska Sites*

11:15 – 12:30 **Lunch break**

12:30 – 14:00 **U.S. Forest Service (USFS) - Topics/Presentations**
Everett Hinkley, National Remote Sensing Program Manager, USDA Forest Service, Geospatial Management Office
- *UAS in Resource Management Applications: Opportunities & Challenges*

Mark Riley, Remote Sensing Program Lead, USDA Forest Service, Region 6, Oregon and Washington
- *Placer River Trail Bridge Inspection Using Small Unmanned Aircraft Systems*

14:00 – 14:15 **Afternoon break**

14:15 – 16:30 **U.S. Department of the Interior (DOI) – Topics/Presentations**
Carol Fairfield, Marine Ecologist/Marine Mammal Specialist, BOEM Alaska Regional Studies Program
- *BOEM UAS Prospects*

Jeff Sloan, USGS National UAS Project Lead, USGS National Unmanned Aircraft Systems Project Office
- *USGS National Unmanned Aircraft System Project Office Overview*

Leanne Hanson, Biologist and sUAS pilot at USGS Fort Collins Science Center
- *Evaluation of the Raven A small Unoccupied Aircraft System (sUAS) for Population Estimates of Sandhill Cranes and Detecting Greater Sage-grouse*

Chris Holmquist-Johnson, Hydrologist and sUAS pilot at USGS Fort Collins Science Center
- *Using Small Unmanned Aircraft Systems (sUAS) and Thermal Infrared Sensors for Science*

Mark Bauer, Geospatial Analyst, GIS Analyst, and UAS Operator at USGS
- *Processing UAS Imagery using Agisoft Photoscan*

16:30 - 16:45 **Questions/Wrap-up**