



**Natural Resources Applications of UAS Technology**

Bruce Quirk with the U.S. Geological Survey

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Marian H. Rochelle Gateway Center in Laramie, WY

Unmanned Aircraft Systems (UAS) are evolving as an effective, efficient, economical and environmentally friendly tool to monitor environmental conditions, respond to natural hazards, understand landscape change rates and consequences, conduct wildlife inventories and support related land management missions. The U.S. Geological Survey (USGS) is participating in an operational test and evaluation of UAS to see how this technology supports the mission of the USGS and the Department of the Interior.

Dr. Quirk is currently the Unmanned Aircraft Systems (UAS) Liaison for the U.S. Geological Survey (USGS). He has over thirty years of experience applying satellite and aerial remote sensing to the monitoring of natural resources in the United States and around the world. He has numerous publications and has received awards from the USGS and NASA for his contributions in the field of remote sensing.