

CAES to host presentation on data analysis and collection via drone – January 30 at 3:30 pm

Idaho State University Associate Professor Dr. Donna Delparte is set to give a presentation on the increasing use of unmanned aircraft systems (UAS) on Jan. 30 at 3:30 pm in the CAES Auditorium.

Dr. Delparte's presentation, *Rise of the Drones: Advanced Imaging for Scientific Research*, will focus on the expanding use of UAS and the impact of the trend on data collection and discovery.



Sponsored by INL's GIS Working Group, the presentation will highlight best practices and lessons learned, with case studies from ISU research on how drones can be used for scientific data collection and analysis. Going beyond the commonly available drone cameras, Delparte's talk will focus on advanced hyperspectral, thermal, multispectral and LiDAR sensor systems and their application to solving scientific problems. Case studies will be drawn from precision agriculture, geohazards, phytochemistry, genotype to phenotype mapping, and wildlife conservation.

Delparte is an Associate Professor in the Department of Geosciences at ISU. She teaches graduate courses in UAS, geovisualization, and geostatistics in ISU's Masters of GIS program. Delparte has an extensive background in the cross-disciplinary applications of UAS, GIS, and remote sensing to the fields of precision agriculture, resource management, and conservation/environmental science. She received her Master's and PhD at the University of Calgary in Canada. She is the chair for the AmericaView UAS Working group and Director of IdahoView, promoting remote sensing research and education in the state.