A panel discussion on the current state of the practice and future developments in the application of small unmanned aerial systems for geophysical characterization of the shallow subsurface also known as the “near surface”.

**Topics & Panelists**

**Introduction** – Bill Barkhouse – Drone Geoscience
Description of topics & introduction of the panelists \ bios.

**Unmanned Aerial Systems** – Jack Elston, Ph.D., Black Swift Technologies
An overview of the current state of the art of drone technology for collecting geoscientific data with specific focus on geophysical measurements applied to characterizing the near surface.

**Sensors** – Richard A. Krahenbuhl – Dept. of Geophysics – CSM
A review of the current state of the art of sensor technology for geophysical characterization of subsurface.

**Data** – Ron Bell – Drone Geoscience
Insights in the issues and challenges with geophysical data collected via a drone including data management and the application of machine learning and artificial intelligence.

**Regulations & BVLOS** – Vic Moss – Drone Service Provider Alliance (DSPA)
Report on the recent and expected changes in FAA regulations governing the operation of small UAS with insights into the changes allowing beyond visual line of sight (BVLOS) flight operations.

**Summary Review \ Q&A** – Tim Rathmann – Drone Geoscience
A brief review of the key points and information provided by the panelists followed by a Q&A session where the audience is encouraged to ask questions of the panel.

**Co-moderators:**

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