

## Special Announcement

# Drones Applied to Geophysical Mapping

SEG Annual Meeting 2017

Post Conference Workshop

**Date: September 29, 2017    Location: George R Brown CC - Houston TX**

Registration fees: SEG Member: \$100    Non-SEG Member: \$200    Students: \$50.00

To register visit: <http://seg.org/Annual-Meeting-2017>

Small unmanned aerial systems (sUAS) applied to geophysical mapping promise more data in less time at reduced risk and lower cost which, in the coming years, will change the manner in which geophysical data are collected. However, there are many challenges and limitations that must be addressed not the least of which is aircraft performance limitations and the lack of geophysical sensors suitable for use with a sUAS.

The objective of this workshop is to bring together experts in fields of geophysical data acquisition and small Unmanned Aerial Systems (sUAS) to discuss how to drones are being applied as well as will be applied to the tasks geophysical mapping as it pertains to resource exploration and environmental site subsurface characterization.

*The following is a partial list of titles and speakers:*

**As The Drone Flies: an introduction to this workshop** - John Lane, USGS and Ron Bell, IGS, LLC

**Drones and Drone Technology** - Robert LeFebvre, NOVAerial Robotics Inc.

**UAS Magnetometers: A review** - Ron Bell, International Geophysical Services, LLC

**MFAM: Miniature Atomic Magnetometer for Autonomous Magnetic Surveys** - Rahul Mhasker, Geometrics, Inc.

**Case History: Application of UAS Magnetometry to Mineral Exploration** - Michael Burns, Pioneer Aerial Surveys Ltd.

**Drone Magnetic and LiDAR Surveys for Locating Legacy Oil and Gas Wells** - Richard Hammack, Garrett Veloski, and James Sams III, National Environmental Testing Laboratory

**Unmanned aerial vehicles and their applications in exploration and mining** - Thomas Stanley-Jones, Aerial Imaging Resources

**Examples of Autonomous Aeromagnetic Surveys with a Vector Magnetometer** - Johannes Stoll, Mobile Geophysical Technology

**Case History : UAV Magnetometry for Mineral Exploration** - Jean-Christophe Ricard, Devbriio Geophysique Inc.

**Comparison of Ground Magnetic and Low Altitude Aeromagnetic Data** - Ron. Bell, International Geophysical Services, LLC

The final hour of the workshop will be a **Panel Discussion on Future Developments..**

*The workshop organizers are presently seeking experts to present topics including using drones applied to mapping, the application of drones to gravity and seismic surveys, and infrared mapping by drone. If you wish to present on these or another drone relevant geophysical mapping topic, please email Ron Bell at [rbell@igsdenver.com](mailto:rbell@igsdenver.com).*