



Special Session on Drone Geophysics and Remote Sensing

Tucson Convention Center
3/27/2024 - Room 202

		Start	End	Title of Presentation	Presenter	Affiliation
	number	7:00	8:00			
	1	8:20	8:40	Introduction to the Special Session Drone Geophysics and Remote Sensing	<i>Session Chair</i>	
1	2	8:40	9:00	Applying 3D modelling from RPAS magnetic data to enhance the separation of magnetic anomalies in the near-surface glacial sediments from shallow bedrock anomalies.	Melvin E Best	Bemex Internation Consulting
2	3	9:00	9:20	Remote Sensing at the Ohio UAS Center	Jamie Davis	Ohio Department of Transportation
3	4	9:20	9:40	Retrieving Subsurface Properties of Mars-analog Glaciers with Drone-based GPR	Roberto Aguilar	University of Arizona
4	5	9:40	9:40	Comparison of Four Drone Enabled Magnetometers in Different Applications	Matiss Brants	SPH Engineering, SIA
		10:00	10:30	COFFEE BREAK		
5	6	10:30	10:50	Estimating UXO Detection Limits for Drone-enabled Magnetometers Using an Upward Continuation filter and Comparing with Real Data	Matiss Brants	SPH Engineering, SIA
6	7	10:50	11:10	Use of UAV Magnetometer Survey for Engineering Site Investigations versus Traditional Magnetic Methods	Justin M Jarratt	DMT Geosciences Ltd.
7	8	11:10	11:30	Mapping Soil Water Content Using a UAV and a L-Band Radiometer	Maik Wollenben, PhD	Skaha Labs
8	9	11:30	11:50	Multi-disciplinary Geophysical Evidence for Modifications to Rock Glacier Morphology and Debris Distribution through Dynamic Processes	Tyler M Meng	University of Arizona
9	10	11:20	11:40	Hyperspectral Imaging for Environmental Remediation using a UAS	Dean Riley, PhD.	Echo Labs
10	11	0:10	12:30	Multi-drone electromagnetic system with cloud processing for subsurface conductivity imaging	Esteban J Bowles-Martinez	Pacific Northwest National Laboratory
		12:30	1:40	LUNCH BREAK		
11	12	1:40	2:00	Comparison of UAV-borne and Helicopter-borne Gamma Ray Spectrometer	Marshall MacNabb	MWH Geosurveys
12	13	2:00	2:20	Applying a Blue UAS to Collecting Magnetic and EM data	R. S. Bell	Drone Geoscience, LLC
13	14	2:20	2:40	Subsurface Imaging Technology Test Site: A Multi-Disciplinary Facility for Near Surface Methods	Alex Olsen-Mikitowicz	CSU Drone Center
14	15	2:40	3:00	The Guidelines for Drone Geophysics: A Progress Report	Geoff Petiffer	Terra Entheos
15	16	3:00	3:20	Summary & Q&A		

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