Subsurface Laser Scanning, multi beam sonar & photogrammetry geo-referenced void surveys: Geospatial Engineering Innovations

Presented by
Mark Hudson, Managing Director Geoterra

Synopsis
Mark will be giving a presentation on recent developments in the subsurface laser scanning, multibeam sonar and photogrammetry geo-referenced surveying of voids and their deliverables for global geohazards.

Recent case studies will be used to demonstrate the techniques and deliverables, including York Rise, Orpington World War II air raid shelter, chalk mine voids, Pinner Wood School, Harrow, abandoned & collapsed railway tunnel, Bradford/Halifax, flooded coal mine voids, Kidsgrove Rail Station, Staffordshire, Tin mine voids, St Austell & Carbis Bay, Cornwall, a sinkhole/bellpit survey at Sappers Field, Wooburn, Buckinghamshire and remote confined space adit/culvert surveys at Folkestone Warren beneath Network Rail tracks, Dunball Quay, Bridgwater Sluice Gate remote surveys.

An update on the speaker’s involvement with flooded sinkholes and mines R&D work on the UNEXMIN/UNEXUP project developing a remote multibeam sonar survey robot, the recent TV5 documentary series on Sinkholes ‘Sucked to Death’ and ‘Sucked Under’ and remote drone laser scan surveys of mines via 150mm surface boreholes!!

Biography
Mark Hudson is the founding owner and Managing Director of Geoterra. He is a Chartered Land, Mining & Minerals Surveyor with the Royal Institute of Chartered Surveyors and consulting Geospatial Engineer and UAV pilot, with over four decades of experience in the geospatial engineering, tunnelling and mining industry.
Registration

If you wish to attend this presentation via the Zoom link, then please complete a Meeting Registration Form (https://forms.gle/HKzNjuwxMiFh2P87). Thereafter, you will be sent the meeting link.

Other matters

Equality, diversity and inclusion

The Mining Institute of Scotland is committed to encouraging and promoting equality, diversity and inclusion among our members, and eliminating unlawful discrimination of members or the public. The purpose of our equality, diversity and inclusion policy is to:

1. Provide equality, fairness and respect for all in our membership, regardless of grade.

2. Not unlawfully discriminate because of the Equality Act 2010 protected characteristics of:
   - age
   - disability
   - gender reassignment
   - marriage or civil partnership
   - pregnancy and maternity
   - race (including colour, nationality, and ethnic or national origin)
   - religion or belief
   - sex
   - sexual orientation.

3. Oppose and avoid all forms of unlawful discrimination.

Code of Conduct at Events

The Mining Institute of Scotland (MIS) values the participation of each member of the materials, minerals and mining community and want all attendees at our events to have an enjoyable and fulfilling experience. Accordingly, all attendees are expected to show respect and courtesy to other attendees throughout all events. In order to make it clear what is expected at our events, all delegates, attendees, speakers, exhibitors, organisers, volunteers and visitors at any part of the event are required to conform to the MIS Events Code of Conduct. In addition, MIS has a Code of Professional Conduct on ethical standards that applies to members and the general public. A copy of both MIS Codes is available from the Secretary before or at each event.

Venue

Online (Zoom)