THE CENTRAL SCOTLAND REGIONAL GROUP OF THE GEOLOGICAL SOCIETY

Notice of event: Thursday 18th October 2018

The 'Meeting Room'

The Quaker Meeting House, 7 Victoria Street. Edinburgh, EH1 2JL

6:00pm for 6:30pm (Coffees in main foyer from 6:00pm talk begins at 6:30pm)

LIDAR: Surveyors Toy or Geologists Tool?

by

James Moncrieff (BE(Elec) MBA

General Manager Maptek – Europe, MENA, Russia, CIS

LIDAR is a data capture technique that has been widely used in surveying and mapping for more than 30 years. Recent years have seen an increase in the number and variety of instruments making use of LIDAR, and a corresponding expansion of the range of applications. This presentation will review the different technologies that make up LIDAR data capture and the strengths and key applications for each.

Applications for LIDAR in mining and quarrying will be discussed, including geological mapping, structural mapping, and slope stability monitoring. LIDAR as a data capture technique will be compared with other technologies including photogrammetry and radar.

Case studies will be presented on the use of LIDAR for mapping in underground mining and for management of rockfalls in the open pit environment, and the broader applications and limitations outside of mining reviewed.

More information on the Central Scotland Regional Group can be found on our webpage.

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James Moncrieff (BE(Elec) MBA
General Manager Maptek – Europe, MENA, Russia, CIS

James Moncrieff started his working life at Maptek's Adelaide headquarters as a graduate Electronics Engineer. His first role was assembly, calibration, and testing of laser scanning systems. After two years James got bored with the nuts and bolts and joined the Adelaide technical services team, providing training and consulting services. Since then James has worked at more than 80 mines and operations in various parts of Australasia, Asia, and Europe. In 2016 he moved to the United Kingdom where he is now responsible for managing Maptek's business in Europe, North and West Africa, the Middle East, Russia and CIS.