

New technologies for exploration and ore discovery

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New exploration techniques are currently being developed in response to decreasing ore discovery rate and increasing exploration challenges. The deposits that were exposed at surface have been mostly discovered, and we are now facing a challenge of exploring in buried environments. New technologies are being developed for more efficient and cheaper drilling to obtain samples, as well as for rapid and cost-effective analyses for informed decisions. These technologies include novel coil tubing drilling technology for mineral exploration in hard rock environments, portable or mobile analytical systems, and various down hole tools capable of collecting data while drilling or short time after drilling. Technology now enables us to communicate and analyse exploration results in real time which is transforming the way exploration will be conducted in the future. This talk aims to discuss how these new techniques can be integrated into more effective mineral exploration in deep, remote and covered environments.