

Exploration Remote Sensing; New Technologies and Trends

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This talk will present the latest developments in geological remote sensing for mineral exploration by highlighting new resource satellites including the new European Copernicus-Sentinel radar and optical missions, the 'Small Sats' including the American Planet Labs and British DMC constellation and the robust new American DigitalGlobe WorldView platforms that are successors to a long line of dedicated resource satellites including Landsat and ASTER. Breakthroughs in spatial and spectral resolution are opening new doors for mineral detection in heavily vegetated, glaciated, clouded and otherwise difficult terrains. If you search the globe for what other exploration teams have missed this talk will show useful examples of which ore deposit styles, alteration minerals and lithologies are being mapped with the new remote sensing technologies and will feature a comparison of their information content, technical characteristics and relative costs.