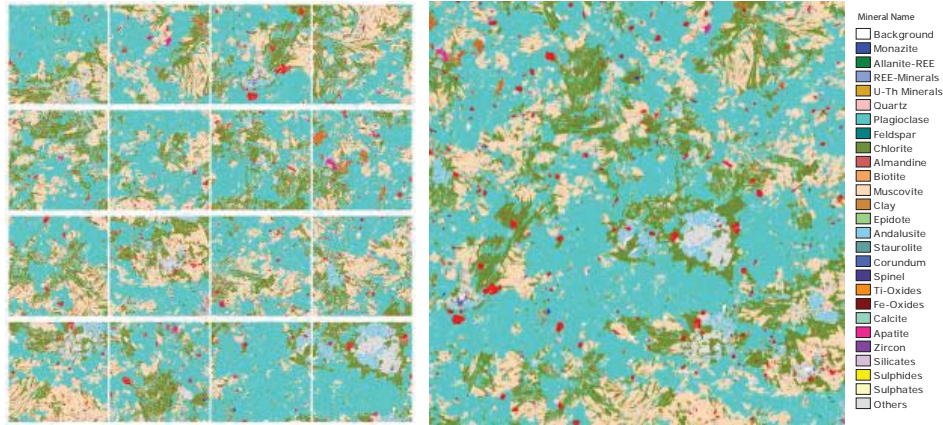


Automated Mineralogy in Geosciences

Two-day short course given by Dr. Andrew Menzies
(Universidad Católica del Norte, Antofagasta, Chile)



Automated mineralogy has been successfully used in the mining industry since the 1970s. Since that time automated mineralogy has evolved with technological developments and computing power, such that today there exists a range of analytical possibilities, including (i) electron beam (e-beam) systems (e.g. scanning electron microscope (SEM) with energy dispersive spectrometers (EDS) such as QEMSCAN), (ii) micro-XRF (X-beam) systems, and (iii) hyperspectral systems. Of these, the most common are e-beam systems, of which QEMSCAN is the dominant system in the market. Importantly, the application of automated mineralogy has evolved beyond the mining sector and is now routinely employed in geological sciences and other fields (e.g. archaeology, forensics, environmental sciences, geometalurgy).

The course will include theory and practical exercises on real data, using the QEMSCAN iMeasure and iDiscover software.

22-23 January 2018
(9h00-12h00 / 13h30 - 17h00)

University of Geneva
Department of Earth Sciences
Geneva, rue des Maraîchers 13, room 001

