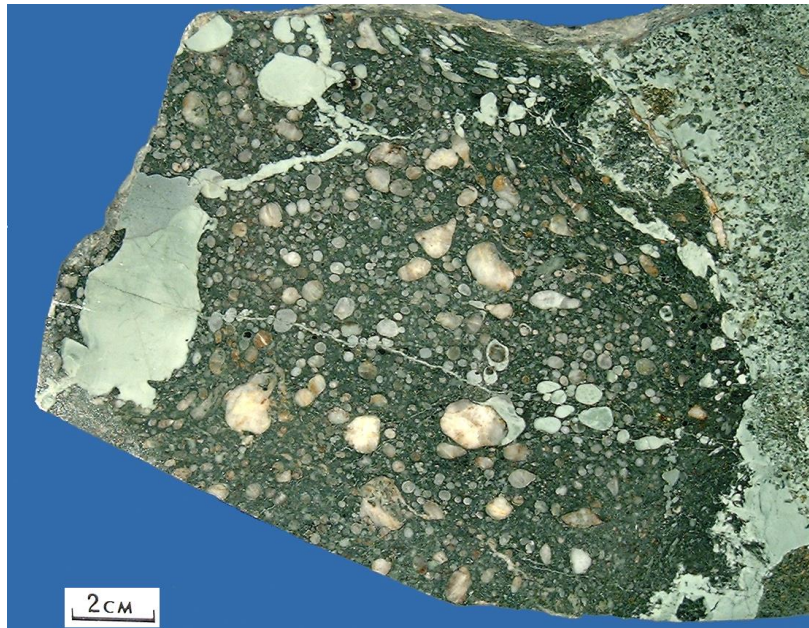


Westmorland Geological Society

Cumbrian peperite – the fascinating tale of magma meeting wet sediment



Dr Clive A. Boulter, WGS

Wednesday, 18 March 2020, 8:00 pm

Abbot Hall Social Centre, Dowker Lane, Kendal, LA9 4DN

It might not look like it from media coverage of volcanic eruptions but magma struggles to get to the Earth's surface. Less than 10% of the magma in tectonic settings like those that formed the Borrowdale volcanics succeeds in erupting and is often trapped in sediments yet to be transformed into rock. In doing so huge contrasts are set up with magma at many hundreds of degrees coming into contact with cold wet sloppy sediment. The magma is chilled and fractures, and the sediment slurries to be injected into the igneous rock creating *peperite*, an often misunderstood material. Some of this happened so close to the surface that the *peperite* erupted as a jet of fluidised sediment and igneous blocks.

Visitors welcome - £2 entrance fee
www.westmorlandgeolsoc.co.uk