

LIMESTONE, LAVA AND LANDSLIPS: THE PEAK DISTRICT WITH PETE WEBB

Led by Pete Webb and hosted by the NWRG, we are excited to invite you to a day trip in the Peak District, renowned for its world class heritage, natural beauty and home to some of the UK's most spectacular geology and geomorphology.

We will start with a short walk to Miller's Dale Quarry to look at the thick-bedded facies of the Carboniferous Limestone. From there, we will drive to Ravens Tor, still in the thick-bedded facies, to look at the Miller's Dale Lower Lava (basalt) and a fault. Our next stop is the old railway cutting at Litton Mill to examine the thin-bedded facies of the Carboniferous Limestone and at an outcrop of the Upper Miller's Dale Lava (followed by a lunch stop).



The second half of the trip starts at Mam Tor, on the lower slopes of which we will look at the lower members of the Millstone Grit: the Edale Shale and the Mam Tor Beds. We will look in the latter for evidence of their turbiditic origin and for plant fossils. We will also look at the (in)famous Mam Tor Landslip. We will then drive a short distance to Windy Knoll, back on the Carboniferous Limestone, to look at the elaterite (biodegraded petroleum) reservoir in the weathered surface of the limestone. Then it's another short drive over Mam Nick to the final stop of the day, where we will stop in a lay-by to look at the Hope Valley Anticline and end-glacial landslips galore.

Pete Webb started in geology at the age of 4, when he collected his first fossils in his back garden in Worthing, at the foot of the South Downs. He graduated from London University in 1967 with a BSc in Geology and then spent 4 years in Kenya doing a PhD on the rift valley volcanics. After a spell in academia in Nigeria, he joined the oil industry in 1974, working as a Wellsite Geologist in the North Sea. Since then, he has worked in Europe, Africa, South America, Asia and Australasia. He still works part time as a Consultant Geologist, mostly overseas doing exploration

management and giving training in various petroleum related topics. Back at home, he delivers public lectures on various geological topics. In his spare time, Pete looks after Hayfield Parish Church grounds and cemetery and enjoys gardening, choral singing and woodland and moorland conservation work.



Meet: Millers Dale Railway Station (Disused), SK17 8SN for 10am (trip expected to end at 17.30pm). **Please bring a packed lunch. Please share cars if possible! Transport not included.**

Clothing: We recommend wearing sensible walking shoes with ankle support and clothing to suit the weather (tbc).

Underfoot Conditions: We anticipate over 2km of walking, predominantly over flat grassy paths. However, some of the localities will require one or two short steep climbs and uneven craggy ground is expected.

Booking: There are a limited number of spaces available, these will be assigned on a first come, first served basis. Please follow the link to book a space on the trip:
<https://www.eventbrite.co.uk/e/nwrg-field-trip-the-peak-district-saturday-19th-july-tickets-1366430453269?aff=oddtcreator>

Organised by the North West Regional Group of the Geological Society of London.

For further information contact the group secretary, Thomas Woolley at:
Geologicalsociety.northwest@gmail.com

CPD: These events may be considered for contributing to a recognised continuing professional development (CPD) scheme as part of personal development. Delegates should check their individual scheme requirements.