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Home Counties North Regional Group

Group visit to the fifth largest quarry in the U.K.

Bardon Hill quarry, disused pit and working pit.

Bardon Road (A511), Coalville, Leicestershire LE67 1TL

Saturday 26th October 2024

9.30 a.m. for 10.00 a.m. start prompt

Led by John Wong FGS, Chair HCNRG



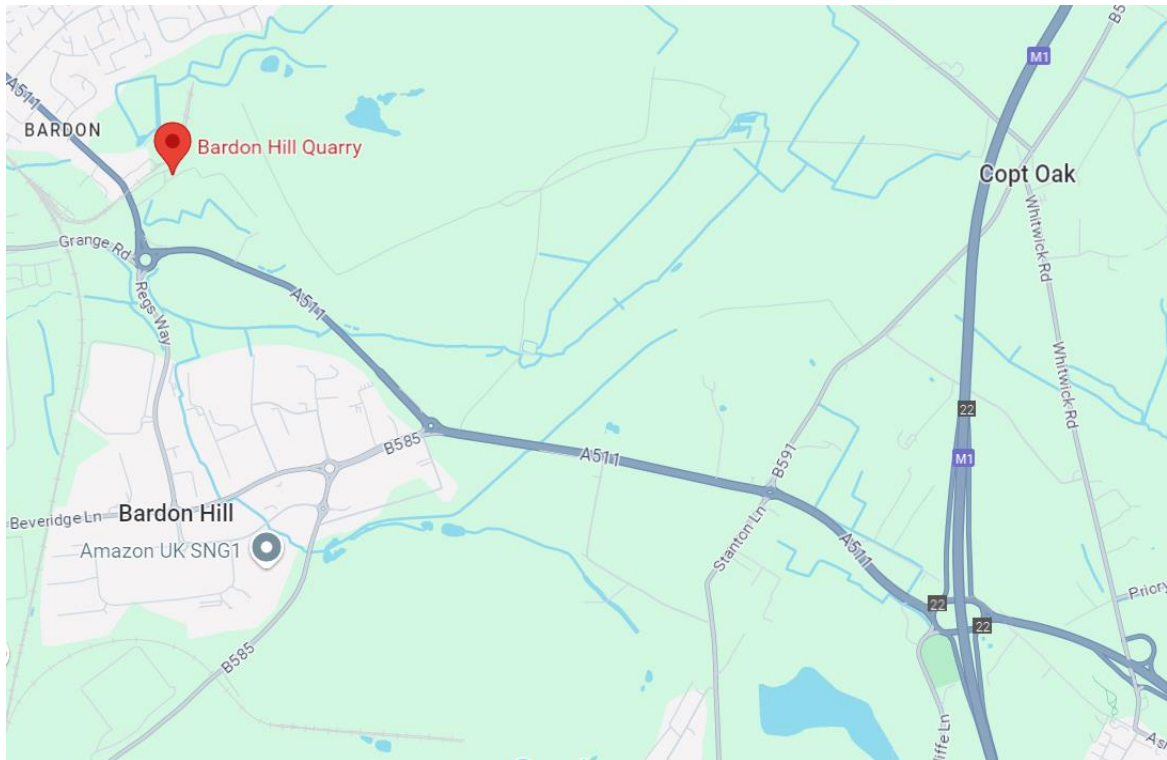
Old quarry pit is 241 metres (790 feet) deep.

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New quarry pit, currently at 108 metres (354 feet) deep.

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Meet at 9.30 a.m. in the car park at Bardon Hill Quarry, LE67 1TL

A prompt start is essential as all members will require an induction by the quarry operations manager. Our visiting group will then be ferried by a bus to the two quarry pits.

The top of Bardon Hill is at 278 metres (912 metres) AOD, it is the highest elevation in Leicestershire. The hill is the remains of an extinct volcano on the western flank of the Charnwood Forest granite ridge.

Bardon Hill old quarry pit has 19 levels, it is 790 feet deep; you can feel the temperature difference when you get to the floor of the old quarry pit. The new Bardon Hill quarry pit started in 2016. Bardon Hill quarry produces 3M tonnes of rock a year - 15% of UK output,

The basement geology of the quarry is Neoproterozoic ocean-arc andesitic volcanic complex; the Precambrian rocks were deformed by the Caledonian Orogeny large-scale faults and folds can be seen in the quarry; the rocks include dacite, hyaloclastic breccias, monomictic breccias, volcanoclastic breccias, phyllites in the fault zones, dioritic/granophyric dykes, and also rocks which have spherulitic textured glassy margin representing the chilled andesite. Deformation boudinage structures are common. Younger Triassic arid mudstone and sandstone sediments lie unconformably on the pre-Pangea landscape of the Neoproterozoic volcanic complex, a large V-shaped incised valley filled with Triassic sediments is a geological locality of must-see picture-postcard quality. .

There is a limit of 15 places available for this field trip, the seat capacity of the bus.

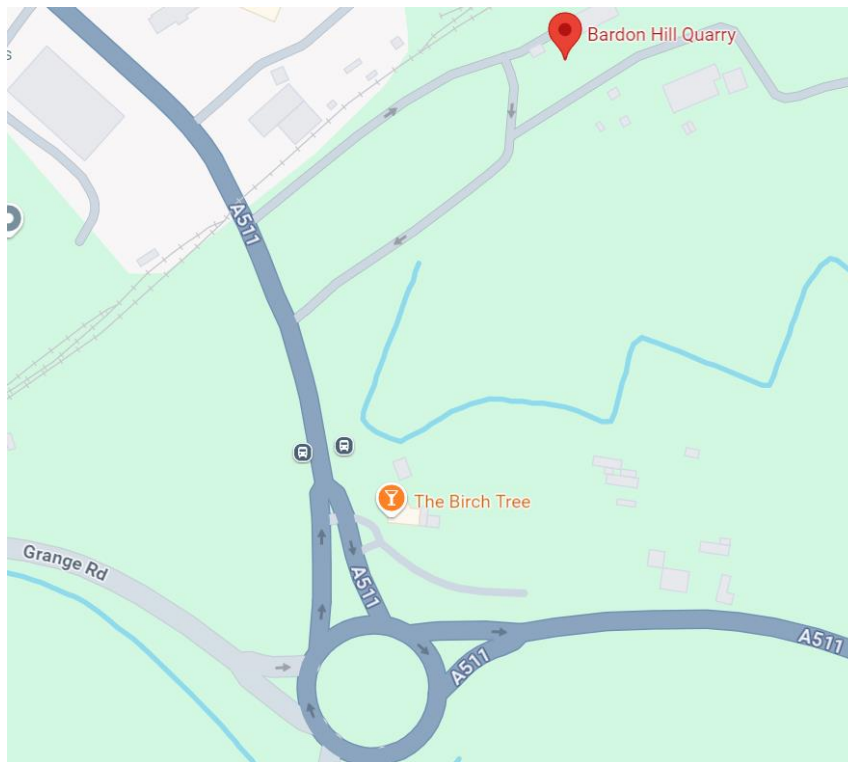
It is compulsory that every participant will need all safety-wear items – hard hat, lace-up boots, gloves, safety glasses and a hi vis jacket (not high vis vest). Please confirm you have all the required safety-wear items when you register your place for this field meeting.

You can bring a geological hammer.

The places are strictly for the Fellows and Student Fellows of the Geological Society who are members of the Home Counties North Regional Group only, this field trip is free of charge.

Please book your places on a first-come-first-served basis by e-mail to homecountiesnorthregionalgroup@gmail.com

Lunch will be at The Birch Tree, Bardon Road, Coalville LE67 1TD. 0.2 miles southeast of Bardon Hill Quarry.



For more information on the Home Counties North Regional Group visit the website

<http://www.geolsoc.org.uk/hcnrg>

CPD (Continuing Professional Development) hours – This Home Counties North Regional Group event qualifies for your CPD hours spent travelling to/from and attending the event. The content is intended to be suitable for early career through to experienced geologists and related professionals.

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