

Westmorland Geological Society Winter Lecture Series

Carboniferous Limestones, Millstone Grit Group & Yoredale Group of the Pennines

Prof. Colin N. Waters (University of Leicester)

15th November 2023

Abbot Hall Social Centre, Kendal

Refreshments 19.30, Lecture 20.00

Visitors welcome (£3)

This presentation is a personal review of nearly 30 years working on Carboniferous successions in the Pennines whilst mapping with the British Geological Survey. It will present the rationalised stratigraphy that helps better understand the geological evolution of the region. Using field examples, it will also illustrate the depositional processes involved in the formation of three iconic Pennines successions and how the influences of tectonic palaeotopography waned with time. Focus will be on the ramp to shelf transition in the Great Scar Limestone Group on the Askrigg Block, and subsequent evolution to the mixed shelf carbonate and deltaic Yoredale Group and eventual southward migration of the fluviodeltaic Millstone Grit Group.

