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## East Midlands Regional Group – Pre-Fieldtrip Lecture–

### ‘Demise of a carbonate platform’

Dr Peter Gutteridge, Carboniferous Carbonates Limited



Celebrating East Midlands geology, Peter will provide a glimpse into the Early Carboniferous stratigraphic and sedimentological events that led to the shut-down of carbonate production across the Derbyshire carbonate platform.

Evidence points to a combination of internal and external factors whose cumulative effect caused carbonate production to decline limiting the platforms ability to recover from episodes of subsidence and karstic exposure. At the same time, clastic systems were advancing from the north into the basin bringing suspended sediment and terrestrial nutrients that further poisoned the carbonate system. Carbonate production finally ceased and the platform was buried by clastic sediments in the early Namurian.

Peter is a founding Director of Carboniferous Carbonates and an internationally renowned carbonate sedimentologist, he has over 40 years experience in industry and academia. This lecture will form the prelude to our Castleton Fieldtrip on Sat 25<sup>th</sup> June.

**19:00 Tuesday 14<sup>th</sup> June 2022**

**Online zoom event – Please see email for registration details**



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