



YORKSHIRE
GEOLOGICAL
SOCIETY

POCKET DEPOSITS, KARST AND ENVIRONMENTAL CHANGE

SATURDAY 15TH JUNE 2019, INDOOR MEETING BGS KEYWORTH

SUNDAY 16TH JUNE 2019, FIELD TRIP TO BRASSINGTON, DERBYSHIRE

Karst is a distinctive landscape formed by dissolution of soluble rocks such as limestone, dolomite, and gypsum. Underground, karst forms interconnected drainage systems with fissures and caves that host essential water resources but also create hazards such as sinkholes. Much of northern England is underlain by soluble rock formations, notably the Carboniferous Limestone, Permian gypsum and Chalk. A weekend event with lectures and a field trip will demonstrate examples of some of the ancient environments, resources and hazards associated with solution and karst formation in these rocks.

LECTURES: Saturday 15th June 2019, 1.30 - 4.30pm British Geological Survey, Keyworth, Nottingham NG12 5GG

The Brassington Formation: a remarkable Miocene 'pocket deposit' in the Peak District

Dr Jim Riding (British Geological Survey)

A Miocene ecosystem in a hole

Dr Matthew Pound (Northumbria University)

Investigating gypsum karst and sinkholes in Yorkshire

Dr Vanessa Banks (British Geological Survey), and Gabriella Williams (University of Sheffield)

Chalk Karst

Dr Andy Farrant, (British Geological Survey)

FIELD TRIP: Sunday 16th June 2019, 10.30am - 5.00pm Brassington, Derbyshire

The Miocene Brassington Formation is preserved as 'pocket deposits' in karstic depressions in the Carboniferous Limestone of the Derbyshire Peak District. The trip will visit former silica sand quarries in these deposits, which expose a detailed and fascinating record of Miocene environments, climate, ecosystems and tectonics between 5 and 15 million years before the present day. **Leaders:** Vanessa Banks (BGS), Jim Riding (BGS), Peter Jones (University of Derby), Matthew Pound (Northumbria University).

REGISTRATION: Attendance is FREE and you can participate on either or both days. Pre-registration is **not required** for the lectures on **Saturday 15 June**. However, places on the **Sunday 16 June** field trip are limited to 25 **so please register in advance** by email to fieldtrips@yorksgeolsoc.org.uk stating the names of all persons that wish to attend. Further details about the trip will be supplied on registration.