

**British Cave Research Association (UK registered charity 267828).**

**Registered Office: Old Methodist Chapel, Great Hucklow, BUXTON, SK17 8RG**



## **BCRA Cave Science Symposium 2023** **hosted jointly with the Leeds Geological Association**

**Symposium - Saturday 21<sup>st</sup> October, 2023**

**Field-trip - Sunday 22<sup>nd</sup> October, 2023**

**School of Earth and Environment, University of Leeds**

### **THIRD CIRCULAR**

The British Cave Research Association and Leeds Geological Association are pleased to announce details of the 34<sup>th</sup> Annual Cave Science Symposium and associated field-trip. The Symposium will be hosted by Prof. Simon Bottrell and Dr. Phil Murphy at the School of Earth and Environment, University of Leeds, on **Saturday 21<sup>st</sup> October, 2023**. The programme of oral and poster presentations will be of interest to anyone wishing to learn more about cave and karst research and the underground environment. All are welcome and we particularly invite Undergraduate, Masters and PhD students to participate. This will be a live event, but will also be streamed on Zoom.

Please arrive from 9am for a 9.45pm start. Sessions will finish at 5pm. BCRA's AGM will take place during the Symposium from 12:00 to 12:50. The programme appears below:

Following the symposium, an informal evening meal will be arranged for those who are interested. Please sign up for all events using the google form below.

A fieldtrip to Gillfield Level and Nidderdale will take place on **Sunday 22<sup>nd</sup> October**.

Details follow the programme.

## **Registration**

Entry is free of charge, however donations towards the cost of the event would be appreciated. (Donations can be made online at <https://bcra.org.uk/bookshop/donate.html>)

To register your attendance at the symposium (in person or online), meal or field meeting please fill in the google form:

<https://forms.gle/ftL7DSufoekMbqw38>

## **Location**

The School of Earth and Environment is located in the centre of the University of Leeds campus. It is about 20 minutes walk from Leeds rail Station and is served by several buses. The venue is accessible from the main campus entrance on the A660 Woodhouse Lane and from Calverley Street (quicker if walking from Rail Station). Parking is available at the campus multi-storey car park, less than 5 minutes' walk from the venue and accessible from both the main campus entrance on the A660 Woodhouse Lane and from Calverley Street entrance. A detailed map of venue and facilities will be provided shortly.

## **Accommodation**

Below are some potential accommodation options for those intending to stay in Leeds. The University campus is close to Leeds City Centre and many other options will be available if you book online.

Roomzzz Aparthotel Leeds City West

Holiday Inn Express Leeds City Centre

Ibis Leeds Centre Marlborough Street

Premier Inn Leeds City Centre Wellington Street

(these are all just south of the venue and about 10-15 minutes walk away)

Premier Inn Leeds Arena – is equally close and to the east of the venue

Premier Inn Leeds City Centre Whitehall Road is about 20 minutes walk from the venue but is close to Leeds Rail Station.

Alternatively the Premier Inn Headingley is a 25 minute walk north of the venue (or a 10-minute bus ride)

## **Refreshments**

Tea, coffee and biscuits will be served during the morning and afternoon coffee breaks. For hot drinks at other times, and for lunch, the Student Union Building is a very short walk from the venue, with coffee bars, Refectory and "The Old Bar". Other options are available close to campus.

## Symposium Organisers

Please contact Prof. Simon Bottrell (s.bottrell@leeds.ac.uk) for details of the venue and local facilities in Leeds as well as details of the programme and for enquiries concerning oral or poster presentations. For details regarding the field trip, please contact Phil Murphy at: P.J.Murphy@leeds.ac.uk

<b>PROGRAMME FOR SATURDAY 21<sup>ST</sup> OCTOBER</b>
---

9.00 – 9.45 **Arrival and Registration**

9.50 **Welcome and housekeeping** John Gunn and Simon Bottrell

10-00 **A speleothem-based reconstruction of glacial extent across the British-Irish Isles over the past 300,000 years.** Sina Panitz, Michael Rogerson, Sebastian F.M. Breitenbach, Vasile Ersek

10-25 **Living under a rock.** Jo White.

10-50 **Heaning Wood Bone Cave, Great Urswick, Cumbria: chronology and context of the prehistoric human remains.** Keziah Warburton and Rick Peterson

11-15 **BREAK**

11-30 **Getting that sinking feeling in Ripon: is gypsum dissolution a modern or an ancient process?**  
Simon Bottrell, Phil Murphy.

**12.00 – 12.50 BCRA Annual General Meeting**

**12-50 – 13-30 LUNCH**

13-30 **An Inception Framework Hypothesis for karst development in the Burren, Ireland.** Robert A. Watson, Colin Bunce, David Drew, Simone Fiaschi, Caoimhe Hickey, Eoghan Holohan, John Walsh

13-55 **Nidderdale Caves Linking Limestone Inliers Offering Clues to Early Stages of Cave Inception**  
Chris Fox

14-20 **BREAK**

14-40 **Natural and artificial drainage of the Foolow-Eyam-Stoney Middleton karst, Derbyshire**  
John Gunn

15-05 **How comparable are data from bacteriophage and solute (dye) tracer tests in karstic Chalk?**  
Dan Matthews, Lou Maurice, Jared West, Simon Bottrell, Danny Coffey

15-30 **BREAK**

15-50 **Hypogenic void systems characterisation in Mississippian carbonates in the Derbyshire Platform (Northern England, UK).** Mangione A., Hollis C., Abesser C., Banks V., Farrant A., Gonzalez-Quiros A., Gunn J., Shaw R., Wei W., and Whitaker F.

16-15 **Hypogenic caves in the UK – an update.** Andy Farrant

16-40 **General discussion and close**

## POSTERS:

**Unlocking the secrets of Vietnam's past climate: a multi-proxy approach using cave stalagmites.** Chloe Snowling

**Quantifying Holocene relative sea-level changes and paleoclimate using the speleothem from a Scottish metamorphic cave.** Kang Xie

<b>FIELD TRIP ON SUNDAY 22<sup>ND</sup> OCTOBER</b>
---

Please meet at 9.30 in the Toft Gate/ Coldstone Cut carpark on the B6265 1.5 km east of Greenhow Hill village. NGR SE12906440 what3words [///strictly.rocker.showrooms](https://www.what3words.com/strictly.rocker.showrooms)

In the morning we will visit Gillfield Level where you will be walking in water up to 40 cm deep and there is plenty of mud. Equipment required will be helmet, lamp, oversuit and wellies. It is mainly walking but there are opportunities for anyone seeking a bit of crawling. The trip gives a fascinating insight into the geology, mining history and karst development in the area and we will be underground for approximately one and a half hours.

Please note there is a voluntary monetary contribution towards the costs of maintaining access to this site – I suggest a minimum of £5.

After lunch (please bring your own) we move to Nidderdale where Chris Fox of the Black Sheep Diggers will host a trip around the caves and karst. This is a beautiful and little studied caving area where new discoveries are shedding light on the development of the intriguing Goyden Pot cave system. You will again need helmet, lamp, oversuit and wellies suitable for brief walk (plus scramble over one boulder) into a cave.

The visit will finish around 16:30.