

**YORKSHIRE  
GEOLOGICAL  
SOCIETY**



## **23rd British Cave Research Association**

### **Cave Science Symposium**

**Saturday 10th March 2012**

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

**Third Circular: 14 February 2012**

The **British Cave Research Association** is pleased to give final details for its one-day annual **Cave Science Symposium**, which will be held in the Maths / Earth and Environment Building, University of Leeds, on Saturday 10 March 2012. This will be a joint meeting with the **Yorkshire Geological Society** and the **Leeds Geological Association** and will be hosted by **Professor Simon Bottrell** and **Dr. Phil Murphy** of the University of Leeds.

Whether you are an academic, an amateur scientist, geologist or a caver wanting to find out more about the karst environment, you should find something of interest at the Symposium. A provisional programme of presentations is attached. Pre-registration is not required, but, in order to avoid delay to the start, **please arrive before 9.00am**, when registration will commence. The admission charge, to include morning and afternoon refreshments, will be £5, with free entry to speakers, students and members of the sponsor organisations. Donations to help finance the meeting will also be accepted.

Attendees may bring their own lunch packs or briefly visit the Student Union for lunch. At the conclusion of the Symposium, we have been invited to visit a geological teaching laboratory. Limited numbers may also visit the YGS and caving archives in the Boyle Library, which is on the same site. For any further information, please contact the lecture secretary, **Dr. Trevor Faulkner, by 8 March** at: t.faulkner [at] bcra.org.uk or by telephone at: +44 (0)1625 531558. All are welcome, and we look forward to seeing you at the Symposium.

The Maths / Earth and Environment Building (University no. 84) is behind the Student Union, as shown on the interactive map at: [www.leeds.ac.uk/campus-life](http://www.leeds.ac.uk/campus-life). Enter through the main door of the School. The University is situated a pleasant 20 minute uphill walk from Leeds city station. All day onsite car parking will probably be available via the main entrance in front of the large tower in Woodhouse Lane at LS2 9JT, and may be charged at £5. The multi-storey Woodhouse Lane car park is 10 minutes walk away, nearer the centre of Leeds.

Other useful websites: School of Earth and Environment: [www.see.leeds.ac.uk](http://www.see.leeds.ac.uk);  
Accommodation: [www.meetinleeds.co.uk/m/short\\_stay\\_accommodation.php](http://www.meetinleeds.co.uk/m/short_stay_accommodation.php)  
BCRA: [www.bcra.org.uk](http://www.bcra.org.uk); YGS: [www.yorksgeolsoc.org.uk](http://www.yorksgeolsoc.org.uk); LGA: [www.leedsga.org.uk](http://www.leedsga.org.uk);

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**Provisional  
Programme**

**British Cave Research Association  
23rd Cave Science Symposium  
University of Leeds, 10 March 2012**

**REGISTRATION AND COFFEE 09.00–09.30**

*Sales of BCRA, YGS and LGA publications*

*Introductions: Simon Bottrell and Phil Murphy, Symposium Hosts* **09.30–09.40**  
*John Gunn, BCRA President*  
*Noel Worley, YGS President*  
*Tony Benfield, LGA*

*Session 1: Caves and karst in the Yorkshire Dales: Chairman: John Gunn*

**Jack Soper and Glyn Edwards 09.40–10.05**  
*Speleogenesis and the sub-Carboniferous unconformity on the Askrigg Block*

**Phil Murphy 10.05–10.25**  
*Victoria Cave: new light on an old site.*

**Ian Peachey 10.25–10.45**  
*The geological structure of the Skyreholme anticline and its relationship to speleogenesis and post glacial surface morphology*

**Trevor Faulkner 10.45–11.05**  
*How did the Yorkshire Dales deglaciate?*

*Session discussion 11.05–11.10*

**COFFEE 11.10–11.35**

*Session 2: Cave archaeology: Chairman: Simon Bottrell*

**Ian Smith 11.35–11.55**  
*New dating evidence and faunal identifications from Cumbrian caves*

**John Thorp 11.55–12.15**  
*An archaeological review of the Three Counties System, including recent excavations*

**Rob Dinnis 12.15–12.35**  
*Recent archaeological excavations at the late Neanderthal and early modern human site of Ffynnon Beuno, Denbighshire*

**Agni Prijatelj 12.35–12.55**  
*Micromorphology of anthropogenic deposits in Mala Triglavca rockshelter (Kras, Slovenia)*

*Session discussion 12.55–13.00*

**LUNCH AND POSTER DISPLAYS****13.00–14.00**

*Attendees may wish to visit the Student Union for lunch. Lunch packs can also be consumed on the premises, where tea, coffee and fruit juice will be provided. The afternoon session will start promptly at 2.00pm.*

**POSTERS**

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**Session 3: Karst environments: Chairman: Noel Worley**

**Chris Smith** **14.00–14.20**  
*Taking advantage of both U-Th and U-Pb disequilibrium methods for speleothem geochronology*

**Simon Bottrell** **14.20–14.40**  
*Enhancement of basin-scale permeability in limestones by sulphate dissolution*

**John Gunn** **14.40–15.00**  
*Impacts of lead mine drainage on the River Lathkill, Derbyshire*

**Peter York** **15.00–15.20**  
*Microclimate matters – a comparison of limestone pavement grikes and cave entrance habitats*

*Session discussion* **15.20–15.25**

**COFFEE** **15.25–15.50**

**Session 4: Cave biology: Chairman: Tony Benfield**

**Graham Proudlove** **15.50–16.10**  
*Subterranean biology of the Yorkshire Dales*

**Anita Glover** **16.10–16.30**  
*Cave selection and use by swarming bat species in the Yorkshire Dales*

*Session discussion* **16.30–16.35**

*BCRA news: Dave Checkley, BCRA Chairman* **16.35–16.50**

*Concluding announcements: Trevor Faulkner, Symposium lecture secretary* **16.50–17.00**

**FINAL COFFEE** **17.00–17.30**

*Visits to a geological teaching laboratory* **17.30–18.30**  
The lab is in the same building. We are invited to visit it in small groups, hosted by *Phil Murphy*.

*Visits to the Boyle Library* **17.30–18.30**  
The library is close by, on the University campus. It houses the YGS and the University of Leeds Speleological Association library collections. Three groups of 15 people may visit this; tickets will be offered to early arrivals at Registration.

Attendees may also wish to make their own arrangements to visit local cafes and pubs in small groups for an evening meal.