



## **3<sup>rd</sup> International Cave Monitoring Workshop**

**Matienzo, Cantabria, Spain, 20<sup>th</sup>-23<sup>rd</sup> April 2017**

### **First Circular**

Five years after the 2<sup>nd</sup> International Cave Monitoring Workshop, we are planning a third workshop comprising three days of informal presentations and discussions organised around cave trips within the local area.

### **Venue**

The host country will be Spain, and the workshop will be held in the picturesque valley of Matienzo, Cantabria. The close proximity of international airports at Santander and Bilbao allow easy access to the workshop venue. The workshop will be organised by members of Lancaster University, UK aided by members of the Matienzo caving community.

### **Topics**

The overall theme of the workshop will be to develop a series of best practice protocols for monitoring the hydrology and meteorology of cave systems. Specific topics will cover data logging and instrumentation, high resolution drip water sampling, in-situ water chemical analysis, in-situ precipitation of carbonate, and cave surveying. Other topics can of course be covered at the request of participants.

### **Format**

The format of the workshop will be centred around informal presentations interspersed with discussion and exchange of knowledge regarding best practice. Local cave trips will allow demonstration of some of the key technologies discussed. Cave sites to be visited will include sites of active monitoring and of archaeological interest.

### **Meeting size**

Maximum of ca. 25 participants

### **Who should attend?**

The workshop is designed for researchers who are expert in the field of cave monitoring. Although not intended as a training workshop (this is the role of the speleothem summer school), PhD students and early career scientists who are embarking on a research project involving cave monitoring will also be considered subject to space.

## **Link to EGU**

The timing of the workshop is designed to be held pre-EGU, thereby allowing participants to travel to Vienna following the workshop. The most efficient transfer to Vienna involves flying from Santander / Bilbao to Barcelona then to Vienna, although many other flight combinations do exist. Participants are expected to arrange their own flight transfers to Vienna if required.

It is hoped that a formal conference session linked to the workshop will be held at EGU (24<sup>th</sup>-28<sup>th</sup> April 2017). The aim of this session will be to present results and interpretations of monitoring studies particularly where directly linked to speleothem palaeoclimate records. The organisers of the EGU session will be Dr. Peter Wynn, Prof. Dave Matthey, Prof. Christoph Spötl, Dr. James Baldini and Laura Deeprise.

## **Outline Schedule**

### ***19<sup>th</sup> April***

Arrival of workshop participants in the afternoon/evening

### ***20<sup>th</sup> April***

Morning – workshop

Afternoon – local cave trips

### ***21<sup>st</sup> April***

Morning – workshop

Afternoon – local cave trips

Evening - Workshop dinner

### ***22<sup>nd</sup> April***

All day workshop

### ***23<sup>rd</sup> April***

Departure of delegates

## **Fees**

A small registration fee of approximately £125 will be charged to cover the cost of tea/coffee; venue hire; conference dinner and transport around the local area. Accommodation is at the cost of each participant – details to be sent in future information circulars.

## **Organisers**

Dr. Peter Wynn, Prof. Christoph Spötl, Prof. Dave Matthey, Dr. James Baldini, Laura Deeprise

## **Registration**

Due to the limited number of places available on the workshop, and to help planning the thematic sessions, registration will entail completing a short questionnaire. This questionnaire will be made available in the second information circular and also on the workshop web page (available Autumn 2016).

Please put the dates of the workshop in your diary. For further information, please e-mail either Peter Wynn ([p.wynn@lancaster.ac.uk](mailto:p.wynn@lancaster.ac.uk)), or Laura Deeprise ([l.deeprise@lancaster.ac.uk](mailto:l.deeprise@lancaster.ac.uk)).