Symposium-In-Print
Subsidence – Collapse: Occurrence, Impact and Mitigation

Thursday 4th September 2008 at the University of Birmingham

09.00 – 09.30 Registration; tea/coffee

09.30 – 09.45 Welcome from Prof Chris Rogers, Head of Infrastructure Engineering and Management, The University of Birmingham

Introduction to the symposium – Dr Ian Jefferson, The University of Birmingham

09.45 – 11.15 **Session 1: Subsidence – Collapse**

Karst and mining geohazards with particular reference to the Chalk outcrop: ***Clive Edmonds***

The nature, formation and engineering significance of sinkholes related to dissolution of chalk in SE Hampshire: *Peter McDowell, John Coulton, Clive Edmonds and* ***Andy Poulsom***

Sinkhole hazard case histories in karst terrains: ***Tony Waltham***

Fault reactivation and delayed ground movements in the vicinity of fault outcrops: ***Laurance Donnelly****, Martin Culshaw & Fred Bell*

Subsidence and associated ground movements on peat moorland plateaux in the Pennines: ***Laurance Donnelly***

11.15 – 11.45 Coffee

11.45 – 13.00 **Session 2: Investigation options, limitations and strategies**

Novel use of radio-location for a ground investigation at Pen Park Hole, Bristol: ***Andy Farrant*** *& Geoff Mullan*

Karst geohazards in the UK: the use of digital data for hazard management: ***Andy Farrant*** *& Tony Cooper*

Remote thermal infrared surveying to detect abandoned mineshafts in former mining areas: ***Dave Gunn,*** *S Marsh, Andy Gibson, G Ager, K McManus, Martin Culshaw.*

The use of microgravity to detect small distributed voids and volumes of poorly consolidated ground: ***George Tuckwell****, Timothy Grossey, Stephen Owen & Paul Stearns*

13.00 – 14.00 Lunch

14.00 – 15.45 **Session 3: Hazard, risk, public safety and monitoring**

Protocol for subsidence characterization of abandoned chaotic mined ground, along projected US Highway 71, Joplin Lead-Zinc District, SW Missouri: ***Allen Hatheway*** *& Neil Anderson*

A GIS-based prediction method to evaluate subsidence-induced damage from coal mining under water: ***Esaki, T.****, Djamaluddin, I. & Y. Mitani*

Forecast of a collapse location: ***Victor Khomenko***

Planning for development on land that is potentially prone to subsidence in England: *David Brook &* ***Brian Marker***

The classification, recording, databasing and use of information about building damage due to subsidence and landslides: ***Tony Cooper***

The impacts of coal mining subsidence on groundwater resources management of the East Midlands Permo-Triassic Sandstone aquifer: ***Martin Shepley****, Andrew Pearson & Gordon Smith*

Reducing ground subsidence involving geological CO_2 storage during longwall mining operations: ***Thomas Kempka****, Margret Waschbüsch, Tomás Fernández-Steeger & Rafig Azzam*

15.45 – 16.15 Discussion

16-15 – 16.30 Closing remarks Dr Mike Winter, Scientific Editor, Quarterly Journal of Engineering Geology and Hydrogeology