

EAGE Near Surface 2011

Leicester, UK, 12-14th September

Technical programme:

Four Keynote speakers, 2 parallel oral sessions, plus posters:

<i>Sinkhole and Cavity Detection</i>	<i>Water Resources</i>
<i>Monitoring and Characterisation</i>	<i>Engineering Applications</i>
<i>Industrial Mineral exploration</i>	<i>New Geophysical Technologies</i>
<i>Geotechnical Applications</i>	<i>Archaeogeophysics</i>
<i>Modelling, Inversion and Processing</i>	<i>Airborne Geophysics</i>
<i>Student Programme with special activities</i>	

Workshops:

<i>Sand & Gravel Deposit Assessment</i>	<i>Passive Seismic Methods</i>
<i>Ground Penetrating Radar</i>	<i>Waterborne Geophysical Surveys</i>

Exhibition – 3 day exhibition of equipment and services suppliers.

Field demonstrations – geophysical field methods including a full commercial seismic reflection crew in operation.

Field trips:

Geology and quarrying in Charnwood Forest
Geohazards and Mining in the Peak District

Meeting supported by
Geological Society of London.
**Geological Society members
register at the EAGE members' rate.**

Ground Penetrating Radar: Operation, Use and Good Practice

Presenter: Dr Nigel Cassidy (Keele University)

This course is highly relevant to new users, less experienced users and industry/academic practitioners who need more than just a simple overview of GPR, how it is used and what the gain/pitfalls are. It will include practical survey operation on paved and unpaved surfaces at Leicester University.

Summary of content:

The workshop will cover the basic theoretical, operational and practical aspects of GPR for the relative novice user and will include 'good practice' advice on survey design, data collection, processing and interpretation. Relevant practical examples will be provided and the course will include additional reference and learning material for further study. Particular emphasis will be made to the new generation of GPR systems (Multi-antenna, Multi-frequency) and how to avoid common data collection mistakes. Hands on demonstration and use of GPR systems will be included using a range of commercially available systems (Mala, GSSI, S&S, etc).

The presenter is an active researcher in Ground Penetrating Radar methods and applications.

Schedule, Sunday 11th September 2011:

Time	Session	Venue
10.30	Coffee/tea Introduction.	Bennett Building: G08
11.00	Review of basic theoretical, operational and practical aspects of GPR for the relative novice user and will include 'good practice' advice on survey design, data collection	Bennett Building: G08
13.00	Lunch (Finger Buffet lunch provided)	
14.00	Practical survey demonstration on paved and unpaved surfaces Hands-on demonstration of commercial GPR equipment on Victoria Park	Victoria Park adjacent to Geology Building
15.30	Coffee/Tea	
16.00	Overview of processing and software.	Bennett Building: G08
17.00 - 19.00	End of workshop: Conference Icebreaker Reception	

Sessions will consist of a combination of presentations, break-out discussions, practical demonstrations and surveys followed by case history studies. Delegate materials will consist of:

- Course notes.

To register for this course, go to www.eage.org