



Extractive Industry Geology 12th Conference

University of Leicester • April 8th - 10th • 2002

Programme and Abstracts



CONFERENCE PROGRAMME

Monday 8 April 2002

8.45 - 9.30 *Registration at Gilbert Murray Conference Centre
Tea and Coffee*

9.30 - 9.45 *Welcome Address by Prof. Richard Aldridge,
Head of Geology Department, University of Leicester*

Session 1. Theme: Challenges to the Industry in the 21st Century

9.45 - 10.10 *Best value indicators in mineral planning
B. Murphy, Kent County Council*

10.10 - 10.35 *Marine aggregates - new approaches to management
Mark Russell, British Marine Aggregate Producers Association*

10.35 - 11.05 *Coffee*

11.05 - 11.30 *Sustainability and the UK quarrying industry
Miles Watkins, UK Environmental Advisor, Aggregate Industries UK Ltd*

11.30 - 11.55 *Recycling Leahill Quarry surplus fines into artificial soils and other more
conventional end uses
Howard Robinson, Tarmac Ltd and David Harrison, British Geological Survey*

11.55 - 12.20 *Mineral resources for small communities: a case study from the Island of
Tiree, Scotland
Paul Henney & Jon Merritt, British Geological Survey*

12.20 - 12.30 *Session Discussion*

12.30 - 1.30 *Lunch at Stamford Hall Dining Room*

Session 2. Theme: New Approaches to Risk Management

1.30 - 1.55 *Quarry slope risk management - practical application of the 1999 Quarries
Regulations
Adrian Charters, Key GeoSolutions Ltd*

- 1.55 – 2.20 ***Rockfall hazard appraisal and risk assessment in surface excavations***
JHF Sedman, Hanson Quarry Products Europe
- 2.20 – 2.45 ***Llyncllys Quarry – good geotechnical design underpins planning, safety and progressive restoration***
Oliver Hawes, Babbie Group
- 2.45 – 3.10 ***The application of mining software (Datamine studio) to mineral resource evaluation in the aggregates industry***
M D Uttley & M A Campodonic, Hanson Aggregates
- 3.10 – 3.20 **Session Discussion**
- 3.20 – 3.50 **Coffee**

Session 3 Theme: Real sites, real hydrology – MIRO session

- 3.50 – 4.15 ***An example of pit floor blinding minimising the impacts of limestone quarry dewatering on the surrounding rock mass***
PL Younger, R Adams, and C Patrick University of Newcastle
- 4.15 – 4.40 ***Hydrogeochemistry of a dewatered magnesian limestone quarry and consequences of disposal of high-pH effluents for sustaining an adjacent natural wetland***
C A Nuttall and PL Younger, University of Newcastle
- 4.40 – 5.05 ***Does quarrying affect water availability in the unsaturated zone?***
P Smart et. al., University of Bristol
- 5.05- 5.15 ***Optimal sampling frequencies for manual groundwater level monitoring***
P. Smart and A. Jones, University of Bristol
- 5.15 – 5.40 ***The use of good quality groundwater monitoring data – a case study from Cheshire***
Mike Streetly, Environmental Simulations International Ltd & Mike Hurley, WBB Minerals
- 5.40 –6.05 ***A case study of the development of a recycled aggregate and waste recycling facility within an area of groundwater sensitivity***
Stuart Mollard, Babbie Group
- 6.45 – 7.30 **Hanson Aggregates Wine Reception, Stamford Hall Bar**
- 7.30 **Dinner at Stamford Hall**
Gilbert Murray Bar open from 8.30 – late.

Tuesday 9 April 2002

Session 4. Theme: Industrial Minerals – From Find to Factory

- 9.00 – 9.45** **The Ansel Dunham Lecture**
Britain's extractive industries – a health check
D E Highley, British Geological Survey
- 9.45 – 10.10** **The Fiesta project: the use of reservoir characterisation techniques in exploration for fluorite mineralisation in the South Pennine orefield**
C. Jeffrey et al. University of Leicester
- 10.10 – 10.35** **Fiesta: Integrated geophysical exploration for fluorite mineralisation in the South Pennine orefield**
T Grossey et al, University of Leicester
- 10.35 – 11.05** **Coffee**
- 11.05 – 11.30** **A petrographic approach to monitoring skid resistance rating: state of Maryland experience**
R. Ganis, Consultant
- 11.30 – 11.55** **The phosphate deposits of Tunisia**
D. Roberts, Staffordshire University
- 11.55 – 12.20** **Mineral extraction from Bradley Fen – a case study.**
R. Donally, Hanson Brick
- 12.20 – 12.45** **Dimension stone quarrying in UK: a brief history**
Dr G K Lott & D G Cameron, British Geological Survey
- 12.45 – 1.45** **Lunch at Stamford Hall Dining Room**

Session 5. Theme: Healthy Environment – The Contribution of Minerals

- 1.45 – 2.10** **Fit for a dram - the Lochaline silica sand mine**
Graham Smith, Border Geo-Science and Anne Smith, Tarmac Northern
- 2.10 – 2.35** **Geotechnical design of Hafod Quarry landscape replication**
G. Walton Geoffrey Walton Practice and D R Wardrop, Lafarge Aggregates
- 2.35 – 3.00** **Rebuilding East Anglian beaches-**
S. Hayman, Environment Agency

- 3.00 – 3.25 *Longcliffe Quarries new precipitated calcium carbonate (PCC) plant*
N. Weedon, *Longcliffe Quarries Ltd*
- 3.25 – 3.55 **Coffee**
- 3.55 – 4.20 *Glass recycling and aggregates – opportunities & potential environmental impacts, a case study*
Steve Hobbs, Enviros Aspinwall & Hugh Lucas, Foster Yeoman Ltd
- 4.20 – 4.45 *Acid rock drainage (ard) at Venn quarry, near Barnstaple, North Devon*
M C Willis, C Nicholas and P W Scott, Camborne School of Mines
- 5.10 – 5.35 *Soil stabilisation – chequered history, bright future*
H. Greaves, Buxton Lime Industries
- 5.35 **Closing Address**