

19th EIG Conference Programme: Sheet 1



UNIVERSITY OF BIRMINGHAM: 6th - 9th September 2016

6 September: CONFERENCE DAY 1 (Field Trips and Arrival)

- 12.00 to 17.00 Trade Stands & Posters set up** (Great Hall, Aston Webb building)
- 14.00 to 18.30 Registration** (at the Duck & Scholar, The Hub, Shackleton Building, Vale Village) **(+ 24-hour key collection at accommodation site)**
- 19.00 to 23.00 Icebreaker Reception followed by Hog Roast** (both at the Duck & Scholar)

7 September: CONFERENCE DAY 2 - Morning

- 07.30 to 08.30 Breakfast** Shuttle Bus service from The Vale & Conference Park to the conference venue at 10 minute intervals from 7:50am to 8:40am.
- 07.45 to 09.00 Trade Stands & Posters set up** (Great Hall, Aston Webb building)
- 08.00 to 09.00 Registration** (at the Rotunda, outside Great Hall, Aston Webb building.) **(+ 24-hour key collection at accommodation site)**
- 08.00 to 08.45 Presenters briefing and presentation check** (in Bramall LG33 on lower ground floor)

Elgar Concert Hall, Bramall Music Building

9.00 Session 1: OPENING

9.00 **Welcome and Introduction by the EIG 2016 Conference Chairman:**
Simon McCurdy (Evolution Geological Ltd).

9.05 **Opening Address:**
presenter Professor William Bloss, Head of School, School of Geography, Earth and Environmental Sciences

9.15 **Title: A history of the extractive industry in the West Midlands**
Presenter Paul Anderson (University of Birmingham)

9.35 **The EIG 2016 'Ansel Dunham' Lecture:**
Title: The Aberfan disaster and its continuing relevance 50 years on
Presenter Alan Cobb (GWP Consultants)

10.20 **Discussion**

10.35 to 11.25 Tea/coffee - In the Great Hall, Aston Webb building - **with opportunity to view trade stands and posters**

Elgar Concert Hall, Bramall Music Building

11.30 Session 2 : LANDSCAPE & RESTORATION

Sponsored by



Chair: Alan Thompson (Cuesta Consulting Ltd.)

11.30 **Title Restoration liability assessments for surface coal mines**
Presenter Tim Marples (The Coal Authority)

11.50 **Title What landscape strategy?**
Presenter Simon Higson (SLR Consulting)

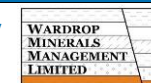
12.10 **Title Heritage quarries and quarry heritage**
Presenter Ian Thomas (National Stone Centre)

12.30 **Title The influence of exterior control type on the accuracy of ultra-high resolution aerial photogrammetry from unmanned aerial vehicles (UAV) and methods for dealing with large data**
Presenter Charlton Bland (Atkins)

Aston Webb Lecture Theatre (C-Block)

Session 3 : HYDROGEOLOGY & HYDROLOGY

Sponsored by



Chair: Lee Clarke (Envireau Water)

11.30 **Title Hydrogeology in the Cornelly ROMP public inquiry**
Presenter Mike Streetly (ESI Ltd.)

11.50 **Title Hydrogeological characterisation of proposed quarry sites and ecological receptors – a case study**
Presenter Richard Mitchener (Atkins)

12.10 **Title The hydro-chemical functioning of an alkaline fen – insights from quarrying in the Peak District**
Presenter Alex Gallagher (Wardell Armstrong)

12.30 **Title York potash mine: The challenges of determining effects in a multi-layered fractured aquifer**
Presenter Barnaby Harding (ESI Ltd.)

12.50 to 13.55 Lunch - In the Great Hall, Aston Webb building - **with opportunity to view trade stands and posters**

7 September: CONFERENCE DAY 2 - (continued)

12.50 to 13.55 Lunch - In the Great Hall, Aston Webb building - *with opportunity to view trade stands and posters*

Elgar Concert Hall, Bramall Music Building

Aston Webb Lecture Theatre (C-Block)

14.00 Session 4 : RESOURCES & RESERVES Sponsored by 

Chair: Clive Mitchell (British Geological Survey)

14.00 **Title** **Are all mineral deposits 'important'? - important in relation to what? - A report on Minatura 2000**
Presenter John Cowley (Mineral & Resource Planning Associates)

14.25 **Title** **The potential for silica sand production in the South Downs National Park**
Presenter Alan Thompson (Cuesta Consulting Ltd.)

14.50 **Title** **Landsearch for new mineral sites: Two Oaks silica sand quarry development**
Presenter Simon Rees (Greenfield Associates)

Session 6 : HEALTH RISK DUST

Chair: Geoff Walton (Dustscan)

14.00 **Title** **"The inexcusable persistence of silicosis", a brief history and future challenges for the extractive industry and scientists**
Presenter Sabina Michnowicz (University College, London)

14.20 **Title** **Measuring respirable crystalline silica in the workplace**
Presenter Owen Butler (Health & Safety Laboratory, Buxton)

14.40 **Title** **Developments in the regulations for working with sands**
Presenter Kevin Stevens (MPA/SAMSA)

15.00 **Discussion Session**

15.15 to 16.00 Tea/coffee - In the Great Hall, Aston Webb building - *with opportunity to view trade stands and posters*

16.05 Session 5 : RESOURCES & RESERVES (continued)

Chair: Paul Jennings (CEMEX)

16.05 **Title** **Reporting codes and mineral projects: what role do they play in successful development and operation**
Presenter Liv Carroll (Accenture (UK) Ltd.)

16.25 **Title** **Calculation of the UK's mineral assets: resourceful, or cause for reservation?**
Presenter Tom Bide (British Geological Survey)

16.45 **Title** **The significance of UK Mineral Extraction to the Economy**
Presenter Aurelie Delannoy (Mineral Products Association)

17.05 **Title** **The geological setting of aggregate resources in Caribbean Islands**
Presenter Peter Scott (Camborne School of Mines / Peter W. Scott Ltd.)

Session 7 : HEALTH RISK DUST (continued)

Chair: Sabina Michnowicz (University College, London)

16.05 **Title** **The sampling of fine dusts associated with quarries.**
Presenter Darren Beriro (British Geological Survey)

16.25 **Title** **The characterisation of fine dust sources with respect to quarry entrances**
Presenter Amy Savage (SEES, University of Portsmouth)

16.45 **Title** **Mapping dust in crusher and screening houses.**
Presenter John Bruce (DustScan Ltd.)

17.05 **Discussion Session**

17.20 to 19.10 Shuttle bus service back to accommodation at Conference Park and The Vale and returning to Great Hall at 20 minute intervals

19.00 to 19.45 Pre-Dinner Drinks Reception (in the Rotunda, outside Great Hall, Aston Webb building)

20.00 to 23.30 EIG Conference Dinner (Great Hall, Aston Webb building)
 Followed by the now legendary, highly generous, **EIG Charity Raffle**

19.00 to 23.00 Cash bar, with proceeds of real ale sales going to the **EIG Charities**.

A limited shuttle bus service will operate after the dinner, from 22:00 to 23:30

POSTER PRESENTATIONS (Available for viewing at all times in the Great Hall)

- * **Monitoring and understanding suspended solids load in extractive mineral site water discharges - A correlation of turbidity with suspended solids.** J. de Blaquiére & A.P. Watson (University of Derby)
- * **Comparing traditional and televiwer methods of structural data collection: Case studies.** K. Lewelyn & M. Brown (SRK)
- * **Accounting for open pit lithostatic unloading induced pore pressure reduction within groundwater models.** - A. Black, M. Raynor & R. Martindale (SRK)
- * **A Qualitative Assessment of Unmanned Aerial System (UAS) or 'Drone' Surveys.** M.J. Riley & A. Wilkinson (Quarry Design)
- * **Using satellite InSAR to detect pit wall failure.** T. Styles (Land & Minerals Consulting Limited), H. McCormack, A. Thomas, H. Larkin (NPA Satellite Mapping CGG UK) & R. Elmer (Knight Piésold)
- * **Investigation of the fracture mechanics behaviour of the fluid driven mechanical fracture process in a highly anisotropic shale.** S. Gehne & P. Benson (University of Portsmouth)
- * **An Assessment of a New Rock Pass System at Criggion Quarry, Powys, Wales, UK.** R.F. Westnedge (Key Geo Solutions & University of Portsmouth)

8 September: CONFERENCE DAY 3

07.30 to 08.30 Breakfast Shuttle Bus service from The Vale & Conference Park to the conference venue at 10 minute intervals from 7:50am to 8:40am.

08.00 to 09.00 Registration (at the Rotunda, outside Great Hall, Aston Webb building.)

Elgar Concert Hall, Bramall Music Building

9.00 Session 8 : KEYNOTE PAPERS

Chair: *Peter Scott (Camborne School of Mines)*

9.00 **Title** **The Battle of the Atlantic in World War II: contributions to victory by quarrying companies, Royal Engineers and by geologist D. L. Linton, Professor of Geography at Birmingham 1958–1971**
Presenter *Ted Rose (Royal Holloway, University of London)*

9.25 **Title** **Deep-ocean mineral resources: exploring Earth's final frontier**
Presenter *Paul Lusty (British Geological Survey)*

9.50 Session 9 : GEOLOGICAL EXPERTISE WITHIN MINERAL PLANNING AUTHORITIES

Chair: *Nick Horsley (Mineral Products Association)*

9.55 **Title** **Mineral Planning Authorities, their retained consultants and requests for additional information from minerals operators.**
Presenter *Adrian Wilkinson (Quarry Design Ltd.)*

10.15 **Title** **A shared mineral planning service - the experience of North Wales**
Presenter *Andrew Farrow (Flintshire County Council)*

10.30 **Panel discussion**, chaired by *Nick Horsley*

10.55 to 11.35 Tea/coffee - In the Great Hall, Aston Webb building - *with opportunity to view trade stands and posters*

Elgar Concert Hall, Bramall Music Building

11.40 Session 10 : PLANNING & RESOURCES  Sponsored by **Hanson**
HEIDELBERGCEMENT Group


Chair: *Craig Arditto (Tarmac)*

11.40 **Title** **Finding sand in a desert: planning for the long-term future of sand extraction in Kuwait.**
Presenter *Alan Thompson (Cuesta Consulting Ltd.)*

12.05 **Title** **Securing marine aggregate reserves for the long term: recent successes using a regional approach**
Presenter *Mark Russell (Mineral Products Association) & Andrew Bellamy (Tarmac)*

12.30 **Title** **Minerals information for Europe: developments towards a more consistent future**
Presenter *Teresa Brown (British Geological Survey)*

Aston Webb Lecture Theatre (C-Block)

Session 12 : GEOTECHNICS & TIPS  Sponsored by **GWP**
CONSULTANTS

Chair: *Duncan Wardrop (Wardrop Minerals Management Ltd.)*

11.40 **Title** **The hydrogeological significance of strata unloading and geomechanical response to mineral extraction at open pit workings**
Presenter *Stephen M Foster (University of Leeds / S M Foster Associates Limited)*

12.00 **Title** **Geotechnical lessons not to be forgotten in the sunset of surface coal mining in the UK - issues from working a steep dip site in a floodplain**
Presenter *David Jameson (GWP Consultants)*

12.20 **Title** **The Management of disused colliery tips**
Presenters *Darren Bryant and Andrew Hoskins (The Coal Authority)*

12.40 **Title** **Managing and stabilising landslides in quarries, a review of the different approaches taken for two landslides.**
Presenter *Thomas Clifford (Atkins)*

13.00 to 13.55 Lunch - In the Great Hall, Aston Webb building - *with opportunity to view trade stands and posters*

14.00 Session 11 : PLANNING & RESOURCES (continued)


Chair: *Richard Mitchener (Atkins)*

14.00 **Title** **Sustainable ball clay mineral extraction: a lawyer's perspective**
Presenter *Pauline Belloni (Bournemouth University)*

14.25 **Title** **Designation Creep, its effect on consented quarries and regulator engagement: Case studies on industrial sand and ball clay**
Presenter *Nick Horsley (Mineral Products Association)*

14.50 **Title** **Quarry development on the HS2 Birmingham Interchange Station site**
Presenter *Simon Rees (Greenfield Associates)*

15.15 **Discussion session**

Session 13 : GEOTECHNICS & TIPS (continued)  Sponsored by **British Gypsum**
SARL-GYPSUM

Chair: *Adrian Charters (Quarry Design)*

14.00 **Title** **Risks associated with peat stability in the planning and development of quarries and borrow-pits in upland areas**
Presenter *Ian Uglow (Atkins)*

14.20 **Title** **Recent rock slopes failures in Cronbane opencast pit**
Presenters *Jeremy Baldock and Alan Cobb (GWP Consultants)*

14.40 **Title** **Geotechnical considerations in underground gypsum mining**
Presenter *Harvey Morcom (British Gypsum)*

15.00 **Title** **Assessment of fractured rock slopes, a case study in highly fractured rock.**
Presenter *Thomas Clifford (Atkins)*

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15.30 to 15.45 Summing up: Simon McCurdy, EIG 2016 Chairman

15.45 to 16.30 Tea/coffee - In the Great Hall, Aston Webb building - *with final opportunity to view trade stands and posters.* (Trade Stands to be cleared away before venue closes at 18.00)

16.30 to 17.00 EIG Annual General Meeting - all invited

16.30 to 17.30 Shuttle bus service between Great Hall, Conference Park & The Vale, leaving Great Hall at 16:30, 17:00 and 17:30

18.00 to 19.00 Lapworth Museum Visit - Private View of Collections

9 September: CONFERENCE DAY 4 (Field Trips)

07.30 to 09.00 Breakfast (see your field trip itinerary for departure time)