

20th EIG Conference Programme: Sheet 1

UNIVERSITY OF DURHAM: 12th - 15th September 2018

Wednesday 12th September: CONFERENCE DAY 1 (Field Trips and Arrival)

- 12.00 to 17.00 Trade Stands & Posters set up** (Rooms ES230/231, Department of Earth Sciences, Arthur Holmes Building)
- 14.00 to 18.30 Registration** & key collection (in foyer of Collingwood College, Calman Learning Centre)
- 19.00 to 23.00 Icebreaker Reception & Buffet?** (at Durham Castle)

Thursday 13th September: CONFERENCE DAY 2 - Morning

- 07.30 to 08.30 Breakfast**
- 07.45 to 09.00 Trade Stands & Posters set up** (Rooms ES230/231, Department of Earth Sciences, Arthur Holmes Building)
- 08.00 to 09.00 Registration** & key collection (in foyer of Collingwood College, Calman Learning Centre)
- 08.00 to 08.45 Presenters briefing and presentation check** (Ken Wadsworth, Calman Learning Centre)

NOTE: This is a DRAFT programme. Although the Speakers and Titles are confirmed, the running order is subject to change without notice, and should not be relied upon. A finalised programme will be issued to delegates at Registration.

Venue Arnold Wolfendale Lecture Theatre (ground floor, Calman Learning Centre)

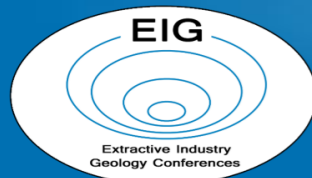
- 9.00 Session 1: OPENING** Sponsored by
- 9.00 **Welcome and Introduction by the EIG 2018 Conference Chairman:**
Nick Horsley (Mineral Products Association)
- 9.05 **Opening Address:**
presenter Professor Prof Jon Gluyas, Dean for Knowledge Exchange and Executive Director of Durham Energy Institute, at Durham University
- 9.15 **Can the Abandoned Mines of County Durham Heat our Future? - An introduction to the Extractive Industry Geology of the Local Area.**
presenter Dr Charlotte Adams, and Prof Jon Gluyas, Durham University
- 9.40 **The EIG 2018 'Ansel Dunham' Lecture:**
A Question of Balance
Presenter: Alan Thompson (Cuesta Consulting Limited)

10.35 to 11.15 Tea/coffee - In ES230/231, Arthur Holmes Building - **with opportunity to view trade stands and posters**

venue Arnold Wolfendale Lecture Theatre (ground floor, Calman Learning Centre)

- 11.20 Session 2 : THE FUTURE OF MINERAL EXTRACTION AND GEOLOGY IN THE UK** Sponsored by
- 11.20 **A Conversation about Getting Fit – Opportunities for the Next Generation of Extractive Industry Professionals to Upskill for the Future**
Chair: *Ian Selby (Director of Sustainable Geosciences, University of Plymouth, & Chairman of the UK Minerals Forum)*
Panel Members (tbc)
- 12.00 **Free at the Point of Use - The Next Generation of BGS Online Resources**
Presenter: Clive Mitchell (British Geological Survey)

12.25 to 13.25 Lunch - In ES230/231, Arthur Holmes Building - **with opportunity to view trade stands and posters**



20th EIG Conference Programme: Sheet 2

UNIVERSITY OF DURHAM: 12th - 15th September 2018

Thursday 13th September: CONFERENCE DAY 2 - Afternoon

12.25 to 13.25 Lunch - In ES230/231, Arthur Holmes Building - with opportunity to view posters

Venue	Arnold Wolfendale Lecture Theatre (ground floor, C	Venue	Rosemary Cramp Lecture Theatre (second floor, Calman Learning Centre)
13.30	Session 3 : GROUNDWATER ISSUES	13.30	Session 4 : RESOURCE DEVELOPMENT
	Chair: Lee Clarke (<i>Envireau Water</i>)		Chair: Peter Scott (<i>University of Exeter</i>)
13.30	Hydrogeological and Environmental Challenges presented by Surface Coal Mining in a Historic Scottish Coalfield	13.30	Sence or Senseless? – Opening a new quarry in the modern day; the next 40 years production at Bardon Hill
	Presenter: <i>Simon Haunch (SEPA)</i>		Presenter: <i>Sam Jameson (Aggregate Industries) and Adrian Charters (Quarry Design)</i>
13.55	Potential for Cotreatment of Mine Water and Waste Water in Waste Water Treatment Works	13.55	Winsford mine: UK's largest salt mine - Fifty five years of rock engineering investigations
	Presenter: <i>Christopher James Satterley (The Coal Authority)</i>		Presenter: <i>Prof. Evan Passaris (Atkins UK)</i>
14.20	Determining impacts on groundwater at the proposed Woodsmith Potash Mine	14.20	A Workable Method for Forecasting Sand and Gravel Demand for Local Aggregate Assessments in England
	Presenter: <i>Chris Woodhouse (ESI Ltd.)</i>		Presenter: <i>Malcolm Ratcliff (Charis Consultancy Ltd.)</i>
14.45	Determining the Geochemistry of Soil and Water Using Drone-based Hyperspectral Analysis	14.45	Aggregate resources in a marine conservation zone: addressing environmental concerns with a geoscientific approach
	Presenter: <i>Peter Kinghan (SLR Consulting)</i>		Presenter: <i>Andrew Bellamy (Tarmac Marine)</i>

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15.10 to 15.40 Tea/coffee - In ES230/231, Arthur Holmes Building - with opportunity to view trade stands and posters

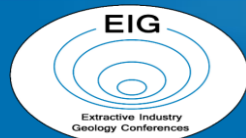
15.45	Session 5 : TECHNIQUES & INNOVATION	15.45	Session 6 : RESOURCES & RESERVE EVALUATION
	Chair: Geoff Walton (<i>Dustscan Ltd</i>)		Chair: Teresa Brown (<i>BGS</i>)
15.45	The Use of Photogrammetry for Structural and Stability Assessment Mapping at Different Scales	15.45	Cornish Lithium: Exploration for a new metal in an old mining region
	Presenter: <i>David Jameson (GWP Consultants LLP)</i>		Presenter: <i>Lucy Crane (Cornish Lithium)</i>
16.10	The Identification of Structural Domains in a Complex Hard rock quarry using remote data acquisition - a case study.	16.10	Is it Time for Industrial Rocks and Minerals Geologists to Exploit Block Modelling?
	Presenter: <i>Stephen Penn (University of Portsmouth)</i>		Presenter: <i>Samuel Lawrence (Tarmac Cement & Lime)</i>
16.35	An overview of geospatial methods for data acquisition and analysis: Useful insights exist beyond the hype.	16.35	Tenure and Permitting Aspects of Reserve and Resource Reporting
	Presenter: <i>Max Wilkinson (Geospatial Research Ltd.)</i>		Presenter: <i>Gavin Mennie (Breedon Northern Limited)</i>
17.00	Ground Instability in Areas of Historic Coal Mining: Application of Intermittent Small Baseline Subset (ISBAS) to the United Kingdom	17.00	A Proposed Methodology to Evaluate a Dimension Stone Quarry Project and to Estimate Resources & Reserves
	Presenter: <i>David Gee (Nottingham Geospatial Institute, University of Nottingham)</i>		Presenter: <i>Marco Cosi (AlpiConsult, & Head of PERC Dimension Stone Group)</i>

19.00 to 19.45 Pre-Dinner Drinks Reception (at Durham Castle)

20.00 to 23.30 EIG Conference Dinner (at Durham Castle)

Followed by the new, improved, SHORTER ... but even more generous than usual ... **EIG Charity Raffle** ... this time in aid of the **North East Air Ambulance**

19.00 to 23.00 Cash Bar



Friday 14th September: CONFERENCE DAY 3

07.30 to 08.30 Breakfast

08.00 to 09.00 Day Delegate Registration (in foyer of Collingwood College, Calman Learning Centre)

Venue Arnold Wolfendale Lecture Theatre (ground floor, Calman Learning Centre)

9.00 Session 7 : INTRODUCTIONS TO POSTER PAPERS

Chair: **Paul Anderson** (University of Birmingham)

9.05 **What's in the dust? The use of microscopy to characterise dust around quarry operations**

Presenter: Daniel Quinn (DustScan AQ)

9.10 **New Crofton Co-op Colliery finally starts!**

Presenter: Toby White (University of Leicester)

9.15 **Scholarship Poster**

Presenter: Toby Boocock

9.20 **Scholarship Poster**

Presenter:

9.25 **Scholarship Poster**

Presenter:

9.30 Session 8 : THE ROLE OF THE ENVIRONMENT AGENCY IN UK MINERALS REGULATION

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

9.30 **The removal of abstraction licence exemptions – where are we now and what have we learned?**

Presenter: Barnaby Harding (ESI Ltd.)

9.55 **Environment Agency Workshop - Panel Discussion**

Chair: Jim Davies (Environment Agency)

Panel: (tbc)

10.45 to 11.25 Tea/coffee - In ES230/231, Arthur Holmes Building - **with opportunity to view trade stands**

Venue Arnold Wolfendale Lecture Theatre (ground floor, Calman Learning Centre)

11.30 Session 9 : MINERAL RESTORATION

Sponsored by

Chair: **Paul Jennings** (CEMEX UK)

11.30 **Refining predictions of waterbody levels in quarry restorations using field data and numerical modelling**

Presenter: Chris Leake (Hafren Water)

11.55 **Restoring Quarries with Multiple Benefits – the role and value of cross-sectoral collaborations to deliver effective and sustainable legacies from quarrying.**

Presenter: Helen Barnard (RSPB)

12.20 **Waste Recovery Post-Methley: Realising Increasing Commercial Opportunities for Sustainable Quarry Restoration**

Presenter: Chris Berryman (ESI Ltd)

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Venue Rosemary Cramp Lecture Theatre (second floor, Calman Learning Centre)

Session 10 : RESOURCES & COMMUNITY

Sponsored by

Chair: **Clive Mitchell** (BGS)

11.30 **From quarry to cowshed; magnesium rich agricultural lime in the UK.**

Presenter: Tom Bide (British Geological Survey)

11.55 **Teaching resource geology: a model for work-based learning at undergraduate level**

Presenter: Paul Anderson (University of Birmingham)

12.20 **Quarry Tales: Oral Histories of Quarrying**

Presenter: Bobbie Millar (University of Leeds)

12.45 to 13.45 Lunch - In ES230/231, Arthur Holmes Building - **with FINAL opportunity to view trade stands and posters** (trade stands then to be cleared away by 5pm)

13.45 to 14.15 EIG Annual General Meeting - in the Arnold Wolfendale Lecture Theatre, **all invited**. Includes presentation of **Cash Prize** for winning poster

Venue Arnold Wolfendale Lecture Theatre (ground floor, Calman Learning Centre)

14.15 Session 11 : GEOTECHNICS

Chair: **Cath Pickett, HSE.**

Sponsored by

14.15 **Quarrying Adjacent to Pre-20th Century Underground Mine Workings**

Presenter: Tom Styles (Quarry Design)

14.40 **Trench Collapse or Murder??**

Presenter: Alan Cobb (GWP Consultants LLP)

15.05 **The use of pre-split and other smooth blasting techniques in quarry design with the purpose of enhancing safety and maximising the recovery of mineral reserves**

Presenter: Paul Joel (Tarmac)

15.30 **Are the Quarry Regulations 1999 Out of Date?**

Presenter: Thomas Clifford (Atkins UK)

16.00 to 16.10 Summing up: Nick Horsley, EIG 2018 Chairman

Saturday 15th September: CONFERENCE DAY 4 (Field Trips)

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