

# 20<sup>th</sup> EIG Conference Programme: Sheet 1

UNIVERSITY OF DURHAM: 12<sup>th</sup> - 15<sup>th</sup> September 2018

## Wednesday 12<sup>th</sup> 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 13<sup>th</sup> 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)

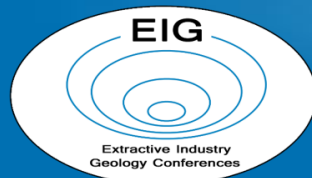
- 9.00 Session 1: OPENING** Sponsored by
- 9.00 **Welcome and Introduction by the EIG 2018 Conference Chairman:**  
**Nick Horsley (Mineral Products Association)**
- 9.05 **Opening Address:**  
*presenter Professor Prof Jon Gluyas, Dean for Knowledge Exchange and Executive Director of Durham Energy Institute, 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**



# 20<sup>th</sup> EIG Conference Programme: Sheet 2

UNIVERSITY OF DURHAM: 12<sup>th</sup> - 15<sup>th</sup> September 2018

## Thursday 13<sup>th</sup> 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)
<b>13.30</b>	<b>Session 3 : GROUNDWATER ISSUES</b>	<b>13.30</b>	<b>Session 4 : RESOURCE DEVELOPMENT</b>
	Chair: <b>Lee Clarke</b> ( <i>Envireau Water</i> )		Chair: <b>Peter Scott</b> ( <i>University of Exeter</i> )
13.30	<b>Hydrogeological and Environmental Challenges presented by Surface Coal Mining in a Historic Scottish Coalfield</b>	13.30	<b>Sence or Senseless? – Opening a new quarry in the modern day; the next 40 years production at Bardon Hill</b>
	Presenter: <i>Simon Haunch (SEPA)</i>		Presenter: <i>Sam Jameson (Aggregate Industries) and Adrian Charters (Quarry Design)</i>
13.55	<b>Potential for Cotreatment of Mine Water and Waste Water in Waste Water Treatment Works</b>	13.55	<b>Winsford mine: UK's largest salt mine - Fifty five years of rock engineering investigations</b>
	Presenter: <i>Christopher James Satterley (The Coal Authority)</i>		Presenter: <i>Prof. Evan Passaris (Atkins UK)</i>
14.20	<b>Determining impacts on groundwater at the proposed Woodsmith Potash Mine</b>	14.20	<b>A Workable Method for Forecasting Sand and Gravel Demand for Local Aggregate Assessments in England</b>
	Presenter: <i>Chris Woodhouse (ESI Ltd.)</i>		Presenter: <i>Malcolm Ratcliff (Charis Consultancy Ltd.)</i>
14.45	<b>Determining the Geochemistry of Soil and Water Using Drone-based Hyperspectral Analysis</b>	14.45	<b>Aggregate resources in a marine conservation zone: addressing environmental concerns with a geoscientific approach</b>
	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

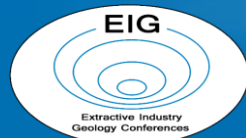
<b>15.45</b>	<b>Session 5 : TECHNIQUES &amp; INNOVATION</b>	<b>15.45</b>	<b>Session 6 : RESOURCES &amp; RESERVE EVALUATION</b>
	Chair: <b>Geoff Walton</b> ( <i>Dustscan Ltd</i> )		Chair: <b>Teresa Brown</b> ( <i>BGS</i> )
15.45	<b>The Use of Photogrammetry for Structural and Stability Assessment Mapping at Different Scales</b>	15.45	<b>Cornish Lithium: Exploration for a new metal in an old mining region</b>
	Presenter: <i>David Jameson (GWP Consultants LLP)</i>		Presenter: <i>Lucy Crane (Cornish Lithium)</i>
16.10	<b>The Identification of Structural Domains in a Complex Hard rock quarry using remote data acquisition - a case study.</b>	16.10	<b>Is it Time for Industrial Rocks and Minerals Geologists to Exploit Block Modelling?</b>
	Presenter: <i>Stephen Penn (University of Portsmouth)</i>		Presenter: <i>Samuel Lawrence (Tarmac Cement &amp; Lime)</i>
16.35	<b>An overview of geospatial methods for data acquisition and analysis: Useful insights exist beyond the hype.</b>	16.35	<b>Tenure and Permitting Aspects of Reserve and Resource Reporting</b>
	Presenter: <i>Max Wilkinson (Geospatial Research Ltd.)</i>		Presenter: <i>Gavin Mennie (Breedon Northern Limited)</i>
17.00	<b>Ground Instability in Areas of Historic Coal Mining: Application of Intermittent Small Baseline Subset (ISBAS) to the United Kingdom</b>	17.00	<b>A Proposed Methodology to Evaluate a Dimension Stone Quarry Project and to Estimate Resources &amp; Reserves</b>
	Presenter: <i>David Gee (Nottingham Geospatial Institute, University of Nottingham)</i>		Presenter: <i>Marco Cosi (AlpiConsult, &amp; 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 14<sup>th</sup> 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)

**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 15<sup>th</sup> September: CONFERENCE DAY 4 (Field Trips)

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

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