



Newsletter of the Extractive  
Industries Geology Conferences

# EIGConferences

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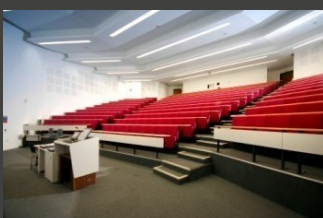
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The Calman Learning Centre  
Venue at Durham



Durham University



## EIG 2018 - Durham University Wed 12th to Fri 14th September 2018

Welcome to the first Newsletter for EIG 2018. Following the great success of the 2016 EIG Conference in Birmingham, the EIG Organising Committee are pleased to confirm the 20<sup>th</sup> EIG will be held at Durham University. The Conference will take place on the 13th-14th September 2018 with field trips on the 12th and 15th September.

Durham University was recently ranked 5th in the UK and 78th in the world. Home to a UNESCO World Heritage site, Durham boasts heritage, beauty and convenience, being only a small city everything is easily accessible. Durham was given its Royal Ascent in 1832 by King William IV. Durham currently has an intake of 80 students a year to its BSc and MSci Earth Sciences degrees.

The EIG Conference is the principal event for sharing knowledge, scientific research and good practice in the field of applied geology within the UK minerals industry. The event is for geo-professionals associated with the extraction of industrial rocks and minerals, including those involved in geology, hydrogeology, geotechnical engineering, restoration and after-use, reserves and resources and quarry design and planning. The conference includes 2 days of presentations plus pre- and post-conference field trips.



Nick Horsley  
2018 Conference Chairman  
[nick.horsley@mineralproducts.org](mailto:nick.horsley@mineralproducts.org)

Conference Chairman, Nick Horsley, and the 2018 organising committee have been working hard to ensure that EIG will once again deliver an outstanding conference .

The excellent conference facilities at Durham will include the famous Durham Castle & Banqueting Hall for the Icebreaker and Conference Dinner



The Banqueting Hall, Durham Castle



## A thank you to all our EIG 2016 Sponsors and Speakers

The EIG Committee want to thank all our sponsors for their support at Birmingham in 2016. It allowed us to host a conference for over 180 delegates and 41 oral presentations. The conference benefited from an excellent trade exhibition.

Thank you to :

University of Birmingham  
Atkins  
Aggregate Industries  
Breedon  
British Gypsum  
Cemex  
Cueta  
ESI  
Evolution Geological  
GWP  
Hanson  
IoQ  
Lafarge Tarmac  
LSS  
MPA  
QuarryDesign  
Sibelco  
SRK  
Wardrop Minerals Management



## Call for Papers : Note Christmas 2017 Deadline

Please reply with offers or queries to  
[papers@eigconferences.com](mailto:papers@eigconferences.com)

Proposals are invited for the presentation of both oral and poster presentations at next year's EIG conference.

**Poster Presentations:** whilst posters have been used at previous conferences, for 2018 we are looking to encourage a greater number of these and, for the first time, to provide poster authors with the opportunity to give short (5-minute) oral presentations to publicise their key findings. We hope that this will attract interest from a wider audience, encouraging more of the delegates to view the posters and to ask questions. As a further incentive, there will be a prize of £100 for the best poster, as assessed by the organising committee.

**Full, Oral Presentations:** The main focus of the conference will be on substantial oral presentations, grouped into thematic sessions. In response to feedback on the 2016 Conference, these are likely to be of slightly longer duration than in previous years, and more time will be allowed for questions. As a consequence, they are likely to be fewer in number and the standard for being accepted will therefore be higher.

Papers are invited on the usual broad range of topics, from geotechnics and quarry design to hydrogeology, hydrology, site investigation, resources & reserves, mineral planning and regulation, quarry restoration and environmental issues. Papers are also encouraged on any other relevant topic that is likely to appeal to an EIG audience. Recent case studies from mineral operators are always of particular interest and are strongly encouraged.

This applies whether or not they illustrate new techniques; good explanations of well-established methods are always welcomed by younger delegates who attend the conference in order to learn about such things

**ABSTRACTS:** Those wishing to present a paper at EIG 2018, whether as a poster or as a full presentation, should submit an abstract of 200 to 300 words to [papers@eigconferences.com](mailto:papers@eigconferences.com) before Christmas 2017. All submissions will be acknowledged and decisions regarding their acceptance will be made by the Papers sub-committee in February 2018. Papers will be selected on the basis of the quality and suitability of the abstracts received. The authors of those accepted – whether for poster or oral presentation – will be entitled to submit a full written paper for publication (subject to the usual peer review process) after the conference.

In preparing an abstract, careful attention should be given to the following guidance: Each abstract should include a concise title together with the name(s) and affiliation(s) of the author(s). It should indicate who would be the presenter and who would be the main point of contact, with telephone number, email and postal address for that person. The main body of the abstract should be 200 to 300 words in length. It should NOT include any biographical details of the authors and should NOT simply be a promise of what might be said. It should be written as if it were the abstract, or preface to a full written paper. It should concisely summarise the aims of the paper, the methods used, the main findings and conclusions.

Abstracts which disregard this guidance are unlikely to be accepted and those which indicate that the



## The 2016 & 2018 Ansel Dunham Memorial Lecture

The 2016 Ansel Dunham Lecture was given by Dr Alan Cobb of GWP, entitled 'The Aberfan Disaster and its continuing relevance 50 years on'. This lecture will be published in the next Proceedings of the EIG Conferences in 2018.



The committee of the EIG has decided that the next Ansel Dunham lecture in 2018 at Durham will be given by Dr Alan Thompson who will speak on planning aspects and mineral resources. Alan has much practical experience in this sector and, as seen in the recent one day meeting, is an interesting speaker.



Dr Alan Thompson - Cuesta  
2018 Ansel Dunham Lecturer



## Call for papers continued ...

presentation is likely to be primarily a marketing exercise will be rejected.

When submitting their abstract, authors should indicate whether their preference would be to present a poster (+ 5-minute oral presentation) or a full 20 to 25-minute presentation, although the final selection of these will be decided by the sub-committee. Authors should also indicate the extent to which they would be willing to submit a full written version of their paper for potential inclusion in the conference proceedings volume (subject to peer review). In some cases, due to the expected high number of submissions, this may be a factor in deciding whether or not the abstract is accepted.

## EIG 1 Day Conference Report

The theme of the third one day technical meeting of the EIG held on 21 June was Exploration and Investigations. It covered practice, recent developments and techniques and was concerned with mineral reserves rather than geotechnics or hydrogeology which had been covered in the two previous one day meetings. The meeting had eight invited speakers and was split into four sections:

- Health and Safety and planning regulations for exploration and investigations
- Mineral quality and resource and reserve reporting
- New and developing methods of identifying and measuring resources
- Practice and problems

There was a well-balanced attendance of 39 from industry, 32 from consultancy, 19 contractors and 10 from academia, government and

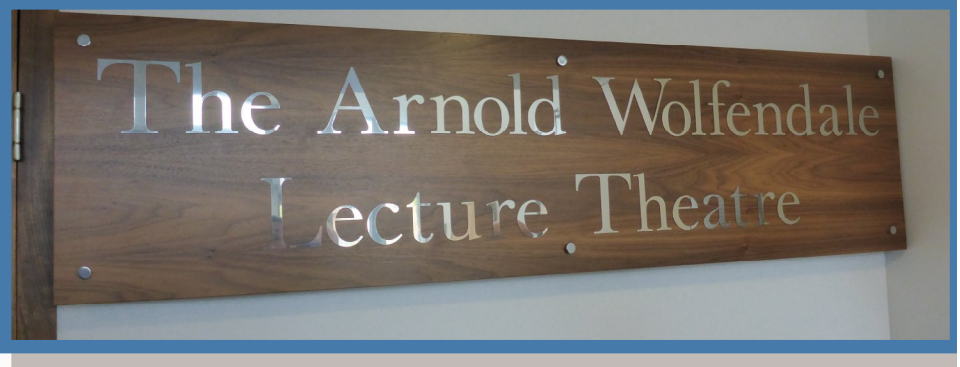
NGO's. This was sufficient to stimulate discussion on what was the hottest June day for 40 years.

The speakers were Cath Pickett from the HSE who spoke on Health & Safety and had to depart immediately after her presentation to attend an inquiry into the sixth fatal quarry accident of the year – a timely reminder for those who are calling for a bonfire of regulations. She was followed by Alan Thompson who spoke on planning controls and permitted development with interesting examples of good practice in terms of both proposed operations and their outcome. During the subsequent discussion David Cage, from a drilling and site investigation contractor, gave a short presentation on safety culture.

Ian Sims spoke on sampling and testing of aggregates with some examples dealing with reporting in the context of geological variability; he was followed by Ruth Allington who gave an overview of the interpretation of the 2017 PERC Standard and its role in assisting with openness and clarity in defining, quantifying and valuing mineral reserves and resources.

Sebastian Uhlemann presented some geophysical research on two gravel working sites and the use of electrical resistivity tomography to define the morphology of soil and mineral deposits. He was followed by a joint presentation by John Forkes and Richard Siddle on the use of various geostatistical techniques to simulate the elevations and thickness of mineral deposits and compared results using Ordinary Kriging indicator and multiple indicator methods.

The last two presentations were on practice; the first being by Andrew Bellamy who spoke on dredging in the Celtic Sea, the North Sea and the English Channel concentrating on working glacial and interglacial fluvial deposits. The final paper



Professor Hazel Prichard  
1954 – 2017

Many of her former BSc and research students now have careers in the extractive industry sector. She will be greatly missed by all who knew her.

EIG Conferences were represented at her Service of Remembrance. There is an obituary published in October's Geoscientist.

<https://www.geolsoc.org.uk/About/History/Obituaries-2001-onwards/Obituaries-2017/PRICHARD-Hazel>



was by Alan Cobb and emphasised the need for a correct method of geological investigation, not necessarily the cheapest, emphasising that investigation savings commonly result in major production costs if not expensive failures.

## Obituary: Hazel Prichard

Hazel Prichard of Cardiff University died in the early hours of New Year's Day 2017 after fighting a courageous battle with an aggressive form of cancer. She was 62. Many of the attendees at EIG conferences will have known Hazel, particularly as she was the local organiser of the conference held at Cardiff in 2008. Hazel obtained a First Class Honours degree in geology and geography at Hull University, a PhD at Newcastle University, and an MBA at the Open University. She was a Royal Society Research Fellow for many years, firstly at the Open University and then at Cardiff. This enabled her to devote most of her time to researching the mineralisation of platinum group elements (PGEs) in mafic and ultramafic rocks, work which continued throughout her subsequent lecturing career. She became a world authority on this area of economic geology and was continuing with writing up her research into PGE minerals and also related research into the anthropogenic dispersion of platinum in the environment right up to her death. She was an avid field geologist and an inspirational teacher and tutor to those on the Resource Geology undergraduate degree at Cardiff, which she directed for many years. She developed a very successful student placement programme with the mining and quarrying industry for which she received an award from the university in 2014.

## Main EIG 2018 Contacts

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UNIVERSITY OF  
BIRMINGHAM

## Request for industry-based student projects

Earth Sciences students at the University of Birmingham complete a dissertation throughout their third (normally final) year of study. For students on the Geology programme this has traditionally involved 5-6 weeks spent independently mapping over summer (approximately 20 km<sup>2</sup> areas), followed by an interpretation/write-up.

This year for the first time a number of these projects ran that were co-supervised by industry partners. These included techniques of mapping at small scales within current or former quarry workings and mapping within areas with future economic potential. Some projects also utilised borehole and geophysical data. The projects have received very positive feedback from students and industry partners and have provided an important link between Higher Education and industry. Therefore, we would be very keen to establish a further set of projects for the 2017/8 academic year.

Projects may be entirely economically based, or could also include some traditional mapping techniques (therefore, a whole 5-6 weeks of industry-based work is not required). For example, face mapping within an operational quarry could be combined with traditional mapping external to the site, for the purposes of analysing the potential for future extension and any associated geotechnical/hydrogeological issues. Providing a finished product that is of benefit to the industry partner is also of primary concern, so the remit of these projects is flexible and open to discussion.

Students complete their mapping projects as part of their degree programmes so will not expect to be paid during their time working. The next cohort of students will decide on their project areas prior to this Christmas, will make their logistical project plans in January-March 2018 and would be expected to conduct their site work in May/June 2018. Therefore, we would be very interested to hear about any potential projects that could be offered on this timescale.

If you would like to offer a project or to receive further information please contact Paul Anderson ([p.e.anderson@bham.ac.uk](mailto:p.e.anderson@bham.ac.uk)) at the University of Birmingham.

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Member of the EIG Committee