



Newsletter of the Extractive Industry Geology Conferences

# EIGConferences



**Bookings now open**

**Visit**

[www.eigconferences.org](http://www.eigconferences.org)



## EIG One Day Technical Event Quarry Design for the future, NOW! September 14th 2023

### BOOKINGS NOW OPEN

EIG are pleased to bring you more details regarding the above event.

The conference is aimed at professionals involved in the design and planning of quarries with the aim of providing continued professional development as well as stimulating debate.

The twin issues of climate change and biodiversity collapse are presenting the extractive industry with real physical, legislative, investment and social challenges.

The quarries of the future are being designed now and there are many considerations to be addressed to deliver resilient, viable and environmentally acceptable mineral sites that are essential to modern society.

The conference will explore how, through quarry design the industry, can position itself to meet these challenges, comply with current and future legislation and deliver a sustainable business model.

I look forward to seeing you at the conference

*Craig Arditto. Tarmac*

**Venue: Stratford Manor Hotel  
September 14th 2023**

09:00 for 09:30 until 16:30

Bookings are now open and can be made online at

[www.eigconferences.com](http://www.eigconferences.com)

Early bird Cost: £60 before August 19th. Full price cost: £80 after August 19th.

Also at the same venue the night before, there is an additional free event:



**QNJAC Geotechnical Subcommittee**

*The Future of the Quarry Design Profession*

FREE

Stratford Manor Hotel  
September 13th 2023

17:30 for 18:00 until 20:00

Book online using the Technical Event form at: [www.eigconferences.com](http://www.eigconferences.com)





## Trade Stands

The venue offers an excellent opportunity to meet your clients and demonstrate your capabilities in an intimate setting. The venue is a single room with lectures, refreshments and trade stands all located in the same space to maximise contact time.

We have a limited number of remaining spaces available each costing £250.

Set up will be available from 8pm on the 13th and 7.00-8.30am on the 14th.

To secure your space and further details please contact:

Marcus Dorey: 07970 724645  
[marcus.dorey@hanson.biz](mailto:marcus.dorey@hanson.biz)



## Sponsorship

The one day event is an excellent opportunity to market your organization and connect with key clients.

We have a number of opportunities remaining as follows:

- Individual Session Sponsorship: £500
- Breaks and refreshments: £350

To discuss in more detail, please contact:

Anne Smith: 07771 975772  
[anne@apsqs.co.uk](mailto:anne@apsqs.co.uk)

## Booking and Costs

Given the increased costs we are all facing, the EIG Committee have decided to significantly reduced the fee for this event. Bookings are available at an early bird rate of £60 until the 18th August before rising to £80 thereafter.

## Accommodation

EIG will not be providing accommodation, but the hotel offers rooms and Stratford is only a few miles away with numerous hotels.

## Meet the Team

**Chair:** Craig Arditto, Tarmac Ltd (A CRH company)

**Vice Chairs:** Ben Matthews, SLR Consulting & Paul Jennings, Tarmac Ltd (A CRH company)

**Bookings:** Lee Clarke, Envireau Water

**Trade Stands:** Marcus Dorey, Hanson

**Sponsorship:** Anne Smith, APSGS







## Programme

09:00 Doors open, Tea and Coffee

09:30 **Welcome:** Craig Arditto: Tarmac Ltd

### **Scene Setting**

Ben Lepley: Mining Geoscientist, ESG Specialist SLR

10:00 **Too much or too little Water!**

### **Introduction**

Barnaby Harding: Harding Hydro & Jim Davies: Environment Agency

### **Managing Risk and Uncertainty**

James Dodds: Water Management Specialist: Envireau Water

### **Impacts of climate change on quarries situated in river terraces; future challenges and opportunities**

Chris Leake: Director: Hafren Water

11:50 **Designing out CO2**

### **Introduction**

Nick Horsley, Director of Planning, Industrial Minerals and MPA Wales: Mineral Products Association

### **Designing CO2 from Quarries and making the link to gain planning applications**

Paul Evans: Wardell Armstrong. Service Area Director Energy and Climate Change.

### **Choosing the best option. A case study of assessing different quarry designs**

Richard Barradell: Strategic Planning Manager: Tarmac

### **Practical examples of decarbonising Quarries**

Uwe Miller & Sam Jameson: National Geological Manager: Aggregate Industries

14:20 **Designing for Biodiversity Net Gain**

### **Introduction**

Dr Nick White: Natural England representative

### **Panel Session**

David Payne: Senior Planning Advisor: MPA

Neil Humphries: Biodiversity Specialist (Mineral Industry)

Dr Nick White: Natural England representative

To be confirmed: Planning representative

### **Debate**

16:20 **Closing remarks:** Craig Arditto: Tarmac

16:30 **Close**

### **Refreshments**

09:00-09:30/11:00-11:20 / 15:20-15:40 Tea & Coffee

12:50-13:50 Lunch







## Conference Scope

The conference will be split into 4 core areas, each session starting with a look at the relevant aspects of environmental changes, current compliance, and future legislative changes, all with a focus on the practical implications for quarry designers and planners.

**1) Introduction and scene setting:** This will provide an overall insight into the issues facing the industry including how the world is changing in terms of physical changes alongside associated changes to legislation and environmental & social governance (ESG).

**2) Too much or too little Water!** : This section will explore the changes that quarries need to make to adapt to more intense rainfall and water shortages.

Designs need to account for the changing climate, accommodating greater storm volumes, whilst complying with permit requirements. At the same time anticipated droughts and increasing demand for groundwater, is threatening both water availability for mineral processing and the ability for an operator to dewater quarries and fully recover its mineral.

Uncertainty around securing appropriate permits and licenses and the tightening legislation to protect the UK's water resources is now a key factor when determining both investment and the ability of an operator to extract and process mineral. It is therefore now a critical consideration in Mineral Reporting under the CRIRSCO family of reporting codes.

Good design and planning may help alleviate these issues and be the make or break for a quarry project.

**3) Designing out CO2:** Climate change emergencies have been declared by numerous planning authorities, government is setting tough targets for the reduction of CO2 emissions, stakeholders and investors are demanding rapid action and companies are committing to hard and fast targets.

Against this backdrop Quarry schemes are being designed, and then assessed by Mineral Planning Authorities; Increasingly in order to gain planning, the industry needs to demonstrate that a particular scheme will deliver meaningful CO2 emission reductions or is the best option. In addition, the life of these schemes will exceed the various CO2 target dates, so designers need to make sure the schemes will remain compliant for the future.

Yet there is little guidance and tools available at present to help guide those planning quarries. This section will investigate how quarry designers can assess and demonstrate the impact of their design choices upon CO2 emissions. It will also investigate how quarry design may need to change to facilitate emergent lower emission technologies such as autonomous driverless electric dump trucks.

**4) Design for biodiversity net gain** : Faced with collapsing biodiversity, the UK government has introduced the concept of Biodiversity Net Gain, a scheme whereby any development must demonstrate that it will deliver a greater benefit than it is taking away.

Hosted by Neil Humphries and accompanied by representatives from the MPA, Natural England and the Planning Officers Society, this session will provide an overview of the new legislation, the guidance and process for mineral sites and the final iteration of the BNG Metric that the minerals industry will have to use, and then finish with an interactive debate to answer people's questions and discuss how legislators and industry can work together to derive the most benefit from the system.

Quarry designers will need to understand and address BNG considerations when devising working and restoration landforms in order to create the canvas upon which net gain can be delivered enabling planning permissions to be obtained. **P.4**

