

British Lime Association

Symposium on UK-Lime Research

Wednesday 13th October 2021

The British Lime Association (BLA) invite you to join our virtual UK-Lime Research Symposium.

The Symposium will run from 10am – 4pm with regular screen breaks to help delegates stay refreshed.

Registration for the event is now open.

- Links to join the event and download the handouts will only be available to registered delegates.
- The event will be recorded so that registered delegates can view the event for up to three months after it has completed.

This Symposium is **free to attend**:

- 14 keynote and online presentations
- 9 video posters
- 14 academic institutions represented
- Presentations on innovations from UK lime manufacturers
- Live Q&A sessions
- Regular screen breaks

Register to attend and find out more at:

www.britishlime.org/news/Symposium2021.php

About Lime

The BLA represents members producing 'industrial mineral lime' – calcium oxide and hydroxide products.

Lime is used across a diverse range of markets including steel & metals manufacturing, water & wastewater treatment, emissions control, biocides, animal feed as well as in soil modification and stabilisation, asphalt, and in mortars and renders for construction.

Manufacturing involves quarrying, high temperature processing, emissions control and environmental management, bulk storage and transport logistics, as well as health and safety.

A recent study showed that lime captures, on average, 33% of the amount of process CO₂ emitted during its production.



OUTLINE PROGRAMME

10:00 **Welcome to the BLA UK-Lime Research Symposium**
Introduction to UK lime manufacturing and lime applications

Keynote presentation: *The importance of academic and industry collaboration in a rapidly changing world*
Dr Giovanni Pesce – University of Northumbria

10:20 **Keynote presentation:** *Hydrated lime in asphalt for longer life roads*
Dr Helen Bailey – The Driven Company

- *Can lime be used to reverse climate change?*
Olivia Hawrot – Heriot-Watt University
- *The path to decarbonisation for the lime industry*
Dr Humbul Suleman – Teesside University

Q&A session

Video posters

- *Participation in the Peak District Zero Carbon Cluster of the HyNet project – Lhoist UK and Tarmac Lime*
- *Practical aspects of trialling hydrogen as primary fuel for lime manufacturing – Tarmac Lime*

11:30 **Screen break** followed by

- *Lime from biogenic calcium carbonate for the production of slag-based alkali activated binder*
Dr Raffaele Vinai – University of Exeter
- *Production of slaked lime from limestone at atmospheric conditions and without the release of chemical CO₂*
Dr Theodore Hanein – University of Sheffield

Q&A session

12:10 **Screen break**

12:30 **Video posters**

- *Investigating the feasibility of carbon capture options for the lime industry*
Tom Cutler, Newcastle University
- *Technical and Environmental Analysis of Calcium Looping Carbon Capture for Rotary Kiln Lime Plants*
Angela Rolfe, Ulster University
- *An investigation of the economic and environmental impact of lime based blended cement concrete*
Hisham Hafez, University of Northumbria
- *Site relevant risk of sulphate swell in lime stabilisation*
Carter Newbury, Nottingham Trent University
- *Increasing the Technological Performance of Chalk-Derived Products for the Water Industry*
Dávid Kocsis, University of Hull/Singleton Birch

13:00 **Video poster Q&A session**

13:15 **Keynote presentation:** *Air lime & formulated lime for mortars & renders*
Dr Richard Ball – University of Bath

- *Importance of mortar substrate interactions in lime masonry structures*
Tugce Busra Su-Cadirci – University of Bath
- *The use of organic additives for improving the characteristics of lime*
Cecelia Pesce – University of Northumbria

Q&A session

14:05 **Screen break**

14:15 **Keynote presentation:** *Lime in major projects*
Dr Paul Beetham – Nottingham Trent University

- *Influence of test set up on sulphate swell measurements*
Rebecca Paramor – Nottingham Trent University
- *Hydrated lime in asphalt*
Didier Lesueur – University of Lille

Q&A session

15:10 **Video posters**

- *Many and Varied Industrial Uses of Lime*
Richard Givens, Tarmac Lime
- *SHEQ Culture Change at Singleton Birch*
Axl Farr, University of Hull/Singleton Birch

15:20 • *Lime in Precolumbian Construction: Waste and Impact*
Prof Elizabeth Graham & Dr Lindsay Duncan - University College London

- *Assessment of hydrated lime Ca(OH)₂ as a faecal sludge sanitation tool for emergency settings (cholera treatment centres, refugee camps...)*
Dr Diogo Trajano Gomes da Silva – University of Brighton

Q&A session

15:50 **Awards and Closing Address**

Richard Stansfield, Chair, British Lime Association

16:00 **Close**

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The British Lime Association is part of the Mineral Products Association, the trade association for the aggregates, asphalt, cement, concrete, dimension stone, lime, mortar and silica sand industries.

For further BLA information visit
www.britishlime.org

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