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Western Regional Group

To 10T or not to 10T?

Mine Instability, the 10T rule and examples from the Midlands

Scott O'Neill-Gwilliams, AECOM UK

16th March 2021

Zoom Talk: opens at 6pm for 6:30pm Start

The Western Regional Group is pleased to welcome Scott O'Neill-Gwilliams who will discuss the practice of mine remediation in the UK, the decision process and design, using case studies.

The UK's industrial mining legacy is present across the country. From flint mining in the South Downs to Tin mining in Cornwall, legacy hazards remain and must be considered by engineering professionals. However, hazards posed by abandoned historical underground coal workings are potentially the most widespread.

With major projects such as HS2 proposed to cross swathes of the country previously impacted by mining, the assessment and remediation of mining hazards remains a high priority to practitioners; even after decades of remedial works already having been undertaken.

Assessing the risk from shallow workings and mine entries is not always straightforward. In relation to workings for many years the application of the 10T approach has been considered "the rule of ".

This talk introduces the risks posed by historical abandoned coal workings beneath sites and will draw on a number of case studies from the speaker and others; highlighting the decision process that often goes into designing remedial works. Furthermore, it introduces the concept of the "10T rule" and why it should not be applied blindly and without consideration of all other failure mechanisms.

Scott O'Neill has been working with the coal mining legacy of the UK for 20 years. He was a major contributor to the current CIRIA guidance on abandoned mine workings in the UK and was a joint author of its chapter 13 on treatment. Scott is a Technical Director for AECOM in the UK and leads AECOM's Mining Remediation Practice Group. Scott's early career was spent working on small and medium sites blighted by mining issues and he joined Scott Wilson, one of AECOM's legacy companies, in 2006. His work has taken him across Europe and the Middle East working on many notable mega projects.

Zoom Details: When: 16 March 2021, 06:30 PM London

<https://us02web.zoom.us/j/84375996723?pwd=UWJwUi9JQ1JzRmoyMHpjV0ovZjVIUT09>

Entry is free, non-members welcome.



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