

Yorkshire Geotechnical Group

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CIRIA guide to natural slopes – condition, appraisal and remedial treatment (RP1096)

Time: Tuesday, 10th October 2023, 18:00 (for a 18:30 start) – 20:00

Venue: University of Leeds, School of Civil Engineering Theatre A, LS2 9JT

Speakers: Professor Bill Murphy, Professor of Engineering Geology, University of Leeds
Adam Daykin, Chief Geotechnical Engineer, Atkins
Adrian Koe, Chief Geotechnical Engineer, Atkins

ABSTRACT

The upcoming CIRIA publication on natural slopes is intended to provide the asset owner, consultant and contractor with information on the condition, assessment and mitigation measures, which are applied to natural slopes. The authors have summarised the most relevant information from literature and consulted with experts and practitioners across the industry to capture good practice, with the aim of providing a document for routine use. It has been prepared as companion document to CIRIA Reports C591 Infrastructure cuttings and C592 Infrastructure embankments and is supported by case studies.

The presentation will cover some key aspects of the guide, including:

- The most recent accepted landslide classification system.
- The processes that result in deterioration of natural slopes, with a focus on the climate changes that are indicated by the Met Office UK CP18 climatic model.
- A proposed methodology for undertaking a quantitative assessment of landslide hazard.
- Management actions and engineering aspects of landslide mitigation, providing a summary of some of the key design aspects that should be considered.



Bill Murphy has over 30 years of experience of research and teaching in Engineering Geology. He has over 50 publications on a range of topics, including on landslides developed on natural slopes in both the subaerial and submarine environments.

Adrian Koe is a Chartered Engineer with over 25 years' experience and is the rock engineering subject matter expert for Atkins.

Adam Daykin is a Chartered Civil Engineer with 25 years of experience. Adam is Atkins' Technical Authority on Slope Engineering.

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