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Periglacial geohazards in the UK, their occurrence, monitoring and mitigation

Dr Paul Fish (Jacobs)

14th January 2020 | The Deritend Room, St Martin in the Bullring, Edgbaston Street, Birmingham, B5 5BB | Refreshments and networking from 6.00pm for a 6:30pm start

Almost all areas of the UK have been affected by periglaciation during the Quaternary and relict periglacial geohazards can provide a significant technical and commercial risk for many civil engineering projects. The processes and products associated with periglaciation in the relict periglacial landscape of the UK are described in terms of their nature and distribution, the hazards they pose to engineering projects, and how they might be monitored and mitigated. A periglacial land systems classification is applied to show its application to the assessment of ground engineering hazards within upland and lowland periglacial terrains. Techniques for the early identification of the susceptibility of a site to periglacial geohazards are discussed. Descriptions of periglacial geohazards and how they might impact engineering works are presented, along with suggestions for possible monitoring and remediation strategies.



Fig. 10.7. Solifluction shears in Middle Jurassic Oxford Clay Formation, Stoke Hammond (photograph Tom Berry/Mott MacDonald).

About the Speakers: Paul Fish is a geomorphologist and Quaternary geologist working in ground engineering team. His experience centres around the development of ground models to understand and manage geohazard risk in a range of onshore and offshore environments around the world. He is co-author, with Tom Berry, Simon Price and Neill Hadlow, of a chapter on periglacial geohazards in the Geological Society Special Publication, Geological Hazards in The UK: their Occurrence, Monitoring and Mitigation, which will be published in 2020.

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