York Society of Engineers

7:30 pm. Wednesday 13 January 2027

Live Lecture

Room P/L/002, Physics/Electronics Building, Campus West, University of York

Landslide Research at BGS and in Yorkshire

by

Emily E Gammon



Birdsall Brow, Birdsall, North Yorkshire

BGS © UKRI

Emily is an Engineering Geologist and Landslide Specialist with the British Geological Survey.

In this talk she will explore why landslides are a growing challenge for infrastructure, communities and the environment, particularly with the effects of climate change.

The presentation provides an overview of landslide research at the British Geological Survey (BGS), focusing on advances in landslide detection, mapping, monitoring and impact assessment.
BGS combines data from the National Landslide Database, field investigations, remote sensing and monitoring networks to improve understanding of landslide activity across Great Britain. Modern techniques, including LiDAR mapping and Earth observation, have enhanced the quality and coverage of landslide data, supporting improved hazard assessment and decision-making.

The presentation will highlight how monitoring, earth observation and artificial intelligence are being used to improve landslide forecasting, hazard mapping and infrastructure risk assessment. These developments support more effective risk reduction, resilience planning and wider multi-hazard research.

Examples from Yorkshire and the wider UK will demonstrate the practical application of different methods for improving landslide research and management.

CPD: This talk is considered to be relevant to Geology and Civil Engineering.
Please note, this lecture will be a live talk in Room P/L/002, Physics/Electronics Building, Campus West, University of York.

Wearing of masks is encouraged (but not mandatory); taking a lateral flow test prior to the meeting (with negative result) is also recommended. There is plenty of space in the lecture theatre for “social distancing”.

Please see the Covid-19 guidance below from the University of York:

The safety of our audience members and staff is our priority, and the University of York continues to have strict cleaning regimes and enhanced ventilation in place.

Please note that the University of York is promoting a message of protect, respect and be kind in relation to Covid-19 and we therefore politely ask that all attendees consider wearing a face covering whilst moving around indoors, washing hands regularly and taking a lateral flow test in advance of the event. We also ask that you do not attend if you experience any symptoms that could relate to a Covid-19 infection OR if you are self-isolating. Events staff will wear face coverings (unless exempt) and clear signage will be available to access hand sanitizer and hand-washing facilities.

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