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## Landslide Hazard and Risk Assessment

Steve Parry

(Parry Engineering Geological Services)

9<sup>th</sup> February 2021 | Zoom Video Conference | 6:30pm start

### Abstract:

Most geo-practitioners are familiar with the approaches to remediate landslides once they have occurred. However, the assessment of landslide hazard and risk for large areas of natural ground, often where there are no published records of landslides occurring, are less well understood.

The talk will discuss what is meant by hazard and risk in a landslide context and outline the methodologies available to evaluate these. This will include a discussion on the advantage and disadvantages of direct and indirect mapping, as well as quantitative versus qualitative assessments, using case studies from the UK and overseas.



Regardless of the methodology adopted, the importance of “reading the landscape”, i.e. an understanding of engineering geomorphology will be emphasized. This understanding allows the development of a landslide inventory, in particular the identification of degraded relict landslides; an evaluation of landslide hazard with respect to the type and mobility of potential landslides; consideration of magnitude and frequency for each landslide type; the development of conceptual models to evaluate “what if scenarios?” and consideration of potential consequences from each hazard type identified, which is required for any risk assessment.

### About the Speakers:

Steve is both a Chartered Engineer and Chartered Geologist with over 30 years' experience. Whilst specializing in landslide hazard and risk, he's also worked on a wide variety of civil engineer projects in the UK, Africa, the Middle East and Asia Pacific. He is co-author of the Hong Kong Governments guidelines for natural terrain landslide assessments and author of the Hong Kong guidelines on geomorphological mapping for landslide hazard assessments. He was a technical reviewer of the Hong Kong Government commissioned publication “Engineering Geological Practice in Hong Kong”.



**e-mail**

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[geolsoc\\_wmrg@live.co.uk](mailto:geolsoc_wmrg@live.co.uk)

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Geological Society, Burlington House, Piccadilly, London, W1J 0BG

Tel: +44 (0)20 7434 9944 Fax: +44 (0)20 7439 8975 Email: [enquiries@geolsoc.org.uk](mailto:enquiries@geolsoc.org.uk) Web: [www.geolsoc.org.uk](http://www.geolsoc.org.uk)

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### Forthcoming Talks:

DATE	TITLE	SPEAKER	VENUE
Tuesday 9 <sup>th</sup> March 2021	<b>Mercia Mudstone, Salt and Gypsum</b>	Adrian Collings ( <i>Arup</i> )	Zoom Video Conference
Tuesday 13 <sup>th</sup> April 2021	<b>Cold Supraglacial Volcanic Deposits and their effects on Glacial Ablation</b>	Dr Laura Hobbs ( <i>Lancaster University</i> )	Zoom Video Conference
Tuesday 11 <sup>th</sup> May 2021	<b>What is a Geological Disposal Facility?</b>	Jonathan Turner ( <i>Radioactive Waste Management</i> )	Zoom Video Conference
Tuesday 8 <sup>th</sup> June 2021	<b>Chartership Evening (TBC)</b>	Shaun Richardson ( <i>Geological Society</i> )	Zoom Video Conference

The WMRG is constantly on the lookout for fascinating talks. If you would like to present, know someone who is willing, or would like to request a subject please contact the WMRG committee (details below) and we will try our very best to accommodate your requests.

In line with the thematic year programme, 2021 will be the Geological Society's Year of Space. The Year of Space will see the Society direct its gaze upwards and outwards, beyond the earth beneath our feet, towards the lesser explored corners of our universe. Space science seeks to answer some of life's biggest questions – why are we here, how did life evolve, and are we alone?



### Contact:

For all enquiries regarding the West Midlands Regional Group and events please contact us using the details below.

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