The Geological Society

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Central Scotland Regional Group

Landslide Hazard and Risk Assessment

Steve Parry, Parry Engineering Geological Services

13th June 2019

Refreshments at 5.45pm for 6.15pm Start

Atkins, 200 Broomielaw, G1 4RU, Glasgow

Please note the event is free but registration is required.

Email craig.parry@atkinsglobal.com to register.

The Central Scotland Regional Group is pleased to welcome Steve Parry. 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 guideline geomorphological mapping for landslide hazard assessments. He was a technical reviewer of the Hong Kong Government commissioned publication "Engineering Geological Practice in Hong Kong".

Most geopractitioners 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 emphasised. 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.

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