



The
Geological
Society

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South East Regional Group

Meeting

Date: 11 April 2017

Location: Crawley Baptist Church, 18.00 for 18.30 start

Engineering Geology and Geomorphology of Glaciated and Periglaciated Terrains – Engineering Group Working Party Report

By Dr David Giles, School of Earth & Environmental Sciences
(Uni. of Portsmouth) and Working Party Member



This meeting will present the Engineering Group's **state-of-the-art review** of ground conditions associated with former **Quaternary periglacial and glacial environments** and their **materials**. Glacial and periglacial history usually results in a **complexity of ground conditions** whose vertical and lateral variability create a high degree of uncertainty that is best reduced with the use of conceptual ground models.



This Working Party has concentrated on the development of such ground models and case histories, to communicate the complex and variable ground conditions that could be expected in these terrains, including:

- The Quaternary setting;
- Conceptual models for glaciated ground, and periglaciated ground;
- The geotechnical properties of the materials encountered in these terrains and their geo-hazards;
- The ground investigation and assessment of the ground in these materials, including their groundwater;
- Geomorphological frameworks in these terrains; and
- Considerations for design and construction in this ground.

The work represents a **fundamental step forward** in our understanding of glacial and periglacial land-systems in the UK and offers **practical advice for conducting ground investigations** in these complex and variable terrains and will be a key reference and essential reading for all engineering geologists, ground engineers and geomorphologists working in these terrains – which is many of us in who work in **SOUTHERN ENGLAND**.

LOCATION: Crawley Baptist Church, Crabtree Road, Crawley, RH11 7GS