



The  
Geological  
Society

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**Speakers:**

**Prof. Jim Rose**

Royal Holloway,  
University of London

**Date:**

**Wednesday 19<sup>th</sup>  
April 2017**

**Details:**

**Tea / coffee:  
17:30**

**Meeting**

**Commences:**

**18:00**

**Location:**

**Burlington House**

**Free to attend.**

**Registration not  
required.**

For further information  
and registration, please  
contact:

Event Convenor: Tom  
Hall

email:  
[tom.hall@mottmac.com](mailto:tom.hall@mottmac.com)

## Factors affecting mid-latitude Quaternary landscape change

**An evening meeting by the Engineering Group of the Geological  
Society (EGGS)**

**Synopsis**

This evening meeting aims to consider the Quaternary processes that have determined the nature of cool temperate latitude terrestrial environments over the last c. 3 million years. Here, Prof. Rose will outline how the processes operating in any given area are the product of climate modulated by rock type (the resisting agent) and relief (determined by tectonics and antecedent relief-forming factors). These climate-forced processes produce distinctive landform, sediment and soil assemblages by which it is possible to identify particular episodes of Quaternary time, and evaluate the response of landscape change to variations in the scale of climate forcing. This scheme can form a basis for modelling the operation of terrestrial earth systems and predicting attributes of value to users of geological and environmental data.



*Jim demonstrating the products of a deeply weathered land surface overlain by a complex till sequence at Fakenham Magna, near Bury St Edmunds in East Anglia.*

Jim Rose is an Emeritus Professor of Geography at the University of London, an Honorary Visiting Associate of the British Geological Survey and a Scientific Advisor to Natural England. His research interests cover a wide range of Quaternary science and geomorphological processes which have resulted in the publication of nearly 500 academic publications and the editing of over 60 volumes. Most recently he has been working on the designation of Quaternary landscapes through a process-based stratigraphy so that information can be provided for end-users such as engineers, utilities, and local authorities who manage that landscape.

