

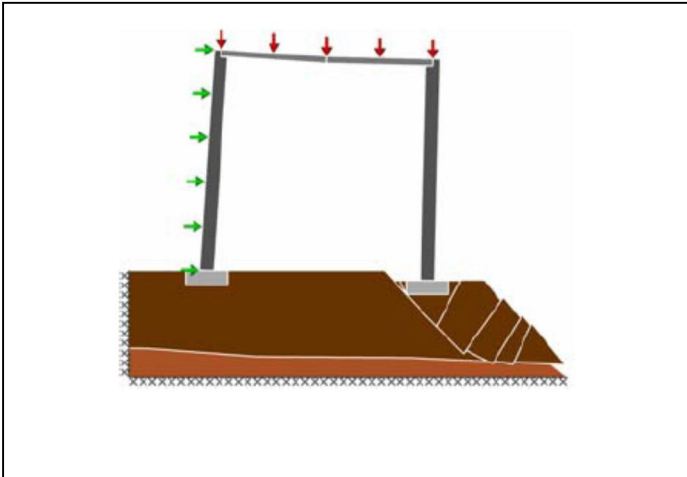
Announcing an Evening Meeting on Wednesday 20 February:

'From the Basics of Eurocode 7 to Cutting Edge Geotechnical Design Techniques'

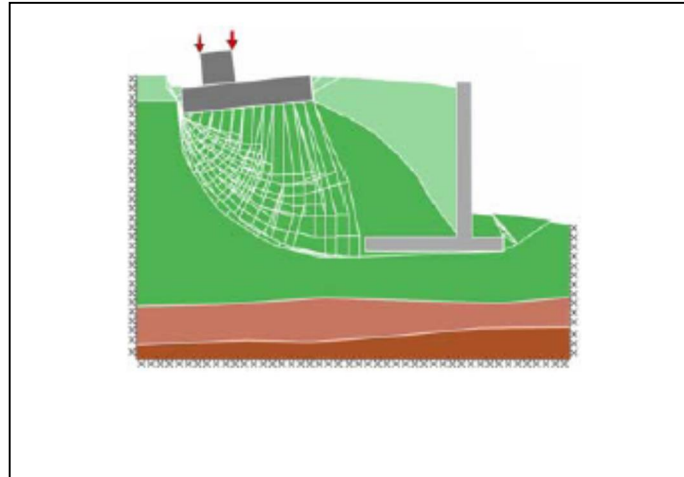
Speakers: Dr Matthew Gilbert and Dr Colin C. Smith

Venue: the Sir Frederick Mappin Building, the University of Sheffield, S1 3JD

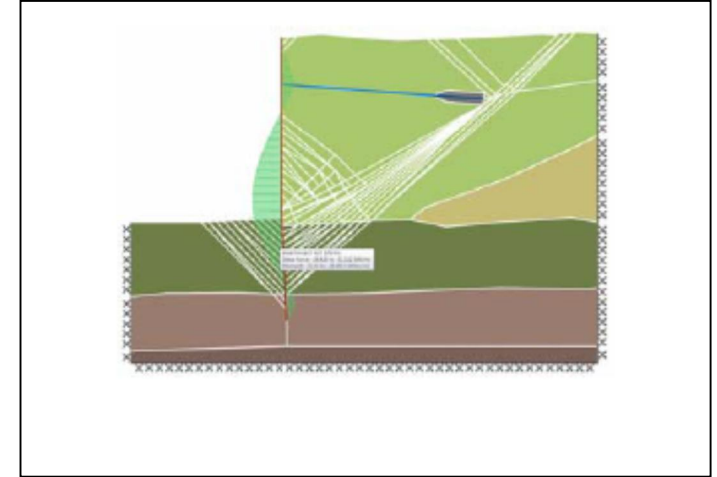
Time: 6.00pm Refreshments; 6.30pm Lecture



The adoption of Eurocode 7, which is now mandatory in Europe, marks a significant change in the way geotechnical design is performed. By treating parameter uncertainty more rigorously, leading to partial factors which are independent of problem type, Eurocode 7 provides the engineer with a robust and flexible limit state design methodology. Key features of Eurocode 7 will be briefly outlined by the presenters, with the main focus being on ultimate limit state design and its application to elements such as foundations and retaining walls.



The move to Eurocode 7 also coincides with the availability to engineers of a powerful new analysis and design technique, Discontinuity Layout Optimization (DLO), which allows the engineer to directly and straightforwardly determine the collapse (or ultimate limit) state for any geotechnical problem geometry, without having to resort to highly simplified hand calculation type methods on the one hand, or more complex techniques such as finite elements on the other.



The DLO technique, originally developed by the presenters and now incorporated within LimitState:GEO, a generally available commercial software application, will be used throughout the presentation to illustrate the various concepts discussed.