

Evening lecture on Risk Assessment in Geotechnical Engineering

Date and Time: Thursday March 7th 2019, 6.30pm

Venue: TU Dublin, Bolton Street, Michael O'Donnell Theatre (Room 259).

Admission: Free Entry

Speaker: D.V. Griffiths

Professor of Civil Engineering, Colorado School of Mines, Colorado, USA
Visiting Fellow, Magdalen College, University of Oxford



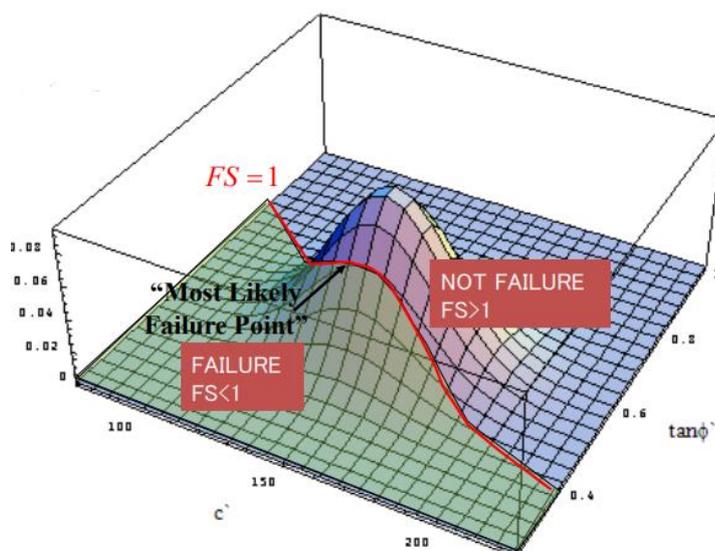
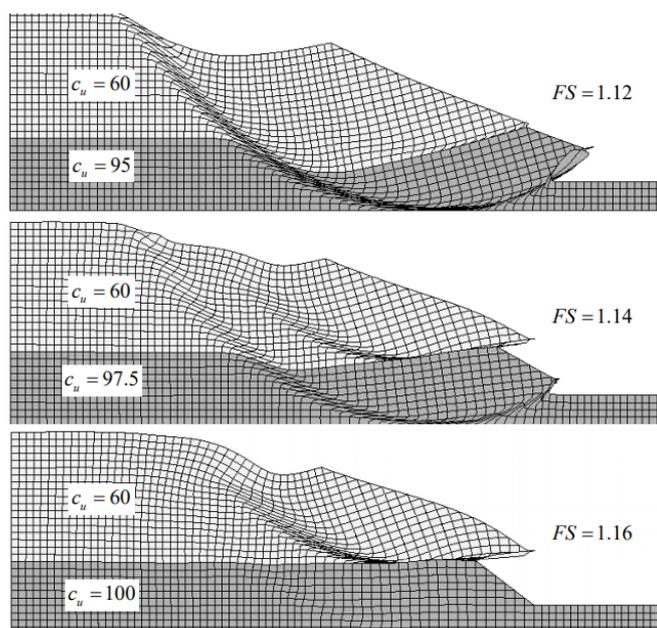
Speaker:

Vaughan Griffiths's interests lie in application of finite element and risk assessment methodologies in civil engineering. He has authored over 350 research papers, including some of the most highly cited in the geotechnical engineering research literature. He is the co-author of three textbooks that have gone into multiple editions including the Chinese language on "Programming the Finite Element Method", "Risk assessment in Geotechnical Engineering" and "Numerical Methods for Engineers". He gives regular short-courses on Risk Assessment in Geotechnical engineering for practitioners, with recent offerings in New Zealand, Australia, Colombia, Norway, Canada and USA.

Professor Griffiths is a former ASCE Director, an editor of Computers and Geotechnics, and on the Advisory Panel of Géotechnique. In 2017, he received the H. Bolton Seed Medal from the ASCE/Geo-Institute and was named the Cross-Canada Lecturer by the Canadian Geotechnical Society.

Abstract:

Geotechnical engineering has seen a rapid growth of interest in risk assessment methodologies. This seems a logical evolution, since soils and rocks are among the most variable of all engineering materials, and geotechnical engineers must often make do with materials they are dealt with at any particular site. A probabilistic analysis may lead to a "probability of failure", as opposed to the traditional "factor of safety", representing a fundamental shift in the way engineers need to think about the suitability of their designs. The seminar will review some of the benefits and potential pitfalls of these different approaches and describe some introductory methods of probabilistic analysis.



Event contacts: Dr Ciaran Reilly, Director at Ciaran Reilly and Associates and Chairperson of Geotechnical Society of Ireland (ciaran@ciaranreilly.ie)

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