

International Geosynthetics Society

United Kingdom Chapter



IGS UK/The Engineering Group of the Geological Society (EGGS)
JOINT MEETING

Thursday 1st December 2016

(Burlington House, Piccadilly,
W1J 0BA)

5.30pm for 6.00pm

3D printed Geosynthetics

Dr Gary Fowmes, Loughborough University

Synopsis:

This presentation will detail our experience of 3D printing geosynthetics, specifically; it will focus on the use of a number of state of the art prototyping technologies, including fused filament printing, laser sintering, thermal ablation and CNC milling, to produce prototype textured geomembranes. The aim of the project is to create higher strength interaction between geosynthetics and adjacent materials, allowing steeper, higher and safer slopes to be constructed. Moreover, the presentation will also showcase the use of digital imaging, including optical microscopy, scanning electron microscopy and interferometry to analyse the wear on geosynthetic materials as a result of interface shear displacements.

Biography:

Dr Gary Fowmes is a Senior Lecturer in Engineering Geology at Loughborough University, a Chartered Civil Engineer and Chair of the IGS UK Chapter. Gary received a First Class Degree in Geology from the University of Durham, a Masters with Distinction from the University of Newcastle upon Tyne and an Engineering Doctorate specialising in Landfill Engineering from Loughborough University. Gary worked in industry as a Geotechnical Engineer for over 9 years, carrying out design and R&D within the landfill engineering sector, before he returned to academia in 2013 joining Loughborough University. He has authored over forty conference and journal publications on the subject of geosynthetic engineering.

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The IGS UK Chapter is a member of the Ground Forum

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