

International Geosynthetics Society

United Kingdom Chapter



IGS/Midland Geotechnical Society

JOINT MEETING

Monday 2nd March 2009

Haworth Building, University of Birmingham B15 2TT

6.30pm for 7.00pm

JOHN MITCHELL AWARD PAPER

Design of a reinforced embankment on compressible soil

Russell Jones¹ & Gareth Swift²
(Golder Associates¹, Salford University²)

This presentation describes the approach to the design of a leachate lagoon on a soft soil with poor geotechnical characteristics, particularly in terms of deformability and permeability. A critique will initially be presented of an original proposed design carried out by others and the final design philosophy adopted by the present authors is discussed.

The main issues that impact on this design are also presented, emphasising the relevance of value engineering and the observational method as part of the design process.

Biographies

Dr Russell Jones is a chartered civil engineer with 20 years experience of research, design, and construction of civil and ground engineering projects. He is a Principal and Technical Director with Golder Associates based in Nottingham, where he is involved in the technical direction and review of a range of geotechnical engineering projects. He is a recognised international leader in the field of containment engineering and Dr Jones authored more than 60 technical papers on various aspects of landfill engineering in peer reviewed journals, symposia and conference proceedings, and has authored three Environment Agency research and development reports, including the *de facto* guidance on landfill stability. He has been a committee member of the IGS UK Chapter for over 10 years, is the outgoing Chairman and has recently been elected onto the international IGS Council.

Dr Gareth Swift is a chartered engineer and is a lecturer in geotechnical engineering at the University of Salford. Previously, Dr Swift worked as a Research Fellow in the Nottingham Centre for Geomechanics at the University of Nottingham and as a geotechnical engineering consultant with Golder Associates based in Nottingham.

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