

# International Geosynthetics Society

## United Kingdom Chapter



### Joint Meeting IGS/British Geotechnical Association

Wednesday 9<sup>th</sup> September 2009

ICE, 1 Great George Street, London. 5.30pm for 6.00pm

### 9<sup>th</sup> IGS UK CHAPTER INVITATIONAL LECTURE

#### ***The Terzaghi Lecture: Criteria for geotextile and granular filters***

**Presented by Dr J.P. Giroud**

The Committee of the International Geosynthetic Society, UK Chapter are pleased to announce that Dr J.P. Giroud has accepted our invitation to present the 9<sup>th</sup> annual invitational lecture.

The 2008 Terzaghi Lecture was first presented at the GeoCongress of the American Society of Civil Engineers (ASCE). The lecture presented in London will be an updated and expanded version of the original lecture. This lecture presents a summary of more than 30 years of work on geotextile and granular filters by the author. A rational approach to the development of filter criteria is presented in a lively manner using animated slides. In particular, the author demonstrates that, while two criteria are needed for granular filters, four criteria are needed for geotextile filters. The author also demonstrates that, while the traditional permeability criterion for granular filters is adequate, the retention criterion for granular filters could and should be improved by adapting some of the features of the retention criterion for geotextile filters. The application of the filter criteria is illustrated and discussed step by step using the case history of the design, construction and performance monitoring of a geotextile filter in a dam constructed in 1970 and still in service.

Dr Giroud, a former professor of geotechnical engineering, is a consulting engineer under JP GIROUD, INC., and Chairman Emeritus and founder of Geosyntec Consultants, a large consulting company. Dr. Giroud is chairman of the editorial board of *Geosynthetics International* and past president of the International Geosynthetics Society (the IGS). He coined the terms "geotextile" and "geomembrane" in 1977 and has authored over 350 publications. He has developed many of the design methods used in geosynthetics engineering (in particular for leakage through liners, liner stability, unpaved roads, and filters) and has originated a number of geosynthetics applications, in particular for landfills, liquid impoundments, and dams. In 1994, the IGS named its highest award "The Giroud Lecture", "in recognition of the invaluable contributions of Dr. J.P. Giroud to the technical advancement of the geosynthetics discipline". A Giroud Lecture is presented at the opening of each International Conference on Geosynthetics by a lecturer selected by the IGS Council. In 2002, Dr. Giroud became Honorary Member of the IGS with the citation "Dr. Giroud is truly the father of the International Geosynthetics Society and the geosynthetics discipline". In 2005, Dr. Giroud has been awarded the status of "hero" of the Geo-Institute of the American Society of Civil Engineers (ASCE) and has delivered the prestigious Vienna Terzaghi Lecture in Austria. In 2005-2006 he presented the Mercer Lectures, a prestigious lecture series endorsed jointly by the IGS and the International Society for Soil Mechanics and Geotechnical Engineering. In 2007, J.P. Giroud became Doctor Honoris Causa of the University of Bucharest (Romania) and, in 2008, he delivered the prestigious Terzaghi Lecture of the ASCE. In 2009, J.P. Giroud has been elected member of the US National Academy of Engineering. In 39 years, Dr. Giroud has worked more than 100,000 hours on geosynthetics.

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[n.dixon@lboro.ac.uk](mailto:n.dixon@lboro.ac.uk)

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[lfraser@tensar.co.uk](mailto:lfraser@tensar.co.uk)

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[gfowmes@golder.com](mailto:gfowmes@golder.com)

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ABG Geosynthetics Ltd  
Tel: 01484 852 096  
[david@abg ltd.com](mailto:david@abg ltd.com)

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Huesker Limited  
Tel: 01384 379770  
[petera@huesker.co.uk](mailto:petera@huesker.co.uk)

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Geofabrics Limited  
Tel: 0113 202 5678  
[plangley@geofabrics.com](mailto:plangley@geofabrics.com)

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