

**INTERNATIONAL GEOSYNTHETICS SOCIETY, UK CHAPTER,
13TH INVITATION LECTURE**

JOINTLY WITH THE BRITISH GEOTECHNICAL ASSOCIATION

Wednesday 9th October 2013 at 6.00pm

at the

Institution of Civil Engineers, One Great George St, Westminster, London SW1P 3AA

Advances in the Use of Geosynthetics for Paved Roads

Speaker:

Prof. Jorge Zornberg Ph.D, P.E.

Synopsis

The author will update the audience on the latest research in the use of geosynthetic base reinforced paved roads. Geosynthetics have long been used to increase the structural or load carrying capacity of the base course within a paved road, leading to improved pavement performance. However, the identification and quantification of the required parameters that contribute to increased performance have remained at best unclear. The first part of the presentation provides an overview of current design methodologies. The second part presents the results of recent research undertaken by the University of Texas and Texas Department of Transportation in order to quantify the variables governing the design of geosynthetic reinforced pavement structures.



Dr. Zornberg, P.E., is the Fluor Centennial Professor at the University of Texas at Austin. He earned his B.S. from the National University of Cordoba (Argentina), his M.S. from the PUC of Rio de Janeiro (Brazil), and his Ph.D. from the University of California at Berkeley.

He has over 25 years' experience both in research and practice in geotechnical, geosynthetics, transportation, and geoenvironmental engineering. Prof. Zornberg participated in the analysis, design and forensic evaluation of retaining walls, reinforced soil structures, transportation systems as well as mining and waste containment facilities. He has served as expert witness in cases involving the collapse of earth retaining structures, failure of barrier systems, and failure of pavements and structures on expansive clays. Prof. Zornberg conducts research on soil reinforcement, geosynthetics, earth retaining structures, pavements, waste containment and mining facilities, unsaturated soils, and numerical and physical (centrifuge) modeling of geotechnical systems. He teaches graduate courses at the University of Texas at Austin on Earth Retaining Structures and on Geoenvironmental Engineering.

Prof. Zornberg serves as President of the International Geosynthetics Society (IGS). He has authored over 320 technical publications, edited a number of publications and book chapters, and been awarded three patents. Prof. Zornberg has been invited to deliver keynote lectures in numerous events around the world. He received many prestigious awards, including ASCE's Croes medal and Collingwood Prize, IGS Award and Young Member Award, as well as the *Presidential Early Career Award for Scientists and Engineers* (PECASE) awarded by President George W. Bush to Prof. Zornberg in 2002.

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This event will be broadcast online, details for which will be issued to BGA members by email prior to the meeting.

Event Free of Charge BUT Advance Registration required at <http://www.ice.org.uk/Event?ID=1913>