



Malaysian Geotechnical Society

WEBINAR—

GEOSYNTHETICS SOLUTIONS FOR SUSTAINABLE TRANSPORTATION INFRASTRUCTURE CONSTRUCTION

NO registration fee!!



Speaker

Professor Chungsik Yoo

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President, Federation of International
Geo-Engineering Societies*

15 October 2024 (Tuesday)

9.00 am – 10.00 am, via Zoom

- BEM Approved CPD Hours: Applying
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Synopsis Geosynthetics engineering has made phenomenal advances during the last decade in areas of manufacturing as well as practical applications. As a result, geosynthetics have become essential and regular construction materials that can be used to facilitate construction, ensure better short- and long- term performance and reduce the long-term maintenance cost in routine civil engineering works. Geosynthetics are also being recognized as fundamentals to sustainable infrastructure development as they reduce the carbon footprint contributed by infrastructure development by minimizing the use of natural resources. The creative use of geosynthetics in geo-engineering practice is expected to continuously expand as innovative materials and products are becoming available.

In this presentation, importance of sustainable infrastructure development is discussed in conjunction with climate change. The sustainable benefits of geosynthetics are then discussed along with relevant case studies on transportation infrastructure development that demonstrate the potential of geosynthetics to significantly reduce carbon footprints compared to traditional solutions. Recent advances in geosynthetics applications on transportation/geotechnical infrastructure systems are introduced with emphasis on fundamentals and global challenges. Finally, the pathway forward regarding geosynthetics technology within the framework of sustainable infrastructure development is discussed.

Speaker's Profile Professor Chungsik Yoo is currently Professor of Civil, Architectural Engineering and Landscape Architecture at Sungkyunkwan University (SKKU) in Korea. He is the current President of Federation of International GeoEngineering Societies (FedIGS) and Immediate Past President of Geosynthetics Society (IGS). Professor Yoo obtained his MSc and Ph.D. degrees in Civil Engineering from the Pennsylvania State University in 1989 and 1993, respectively. After briefly working at Mueser Rutledge Consulting Engineers in USA as a Geotechnical Engineer, he returned to Korea and joined SKKU as Assistant Professor in 1994. Since then, Professor Yoo is continuing to serve as a professor at SKKU, and has served as Chair Professor of School of Civil and Architectural Engineering from 2014 to 2016 and as Vice Dean of College of Engineering from 2017 to 2018. Professor Yoo has co-authored over 500 technical papers, including SCI journal papers and conference papers, in geotechnical engineering and tunneling based on laboratory testing, numerical modeling, and field testing. He was a recipient of 2010 IGS Award from the International Geosynthetic Society (IGS). Professor Yoo also received many awards from the Korean Civil Engineering Society, Korean Geotechnical Society, Korean Tunnelling and Underground Space Association, and Korean Geosynthetics Society including Best Scientific and Engineering Paper Award from the Korean Federation of Science and Technology Societies in 2014.



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- ✓ A minimum attendance of 75% is required in order to obtain a certificate of attendance.

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