

## **Keynote 10**

**Univ. Prof. Dr.-Ing. habil. Theodoros  
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### **Keynote Title**

**Stability Analysis on Natural or Artificial  
Slopes Under Earthquake  
Loading Based On Non-Linear Material  
Models**



Professor Theodoros Triantafyllidis has studied Civil Engineering at the University of Karlsruhe, where he obtained his PhD degree in 1984 concerning the dynamic subsoil coupling between adjacent foundations. In 1989 he obtained his habilitation degree at the Faculty of Civil and Survey Engineering of the University of Karlsruhe on the BEM dynamic formulation with half-space Green's functions. He worked for several years as Group Leader, Technical Manager and Head of Central Technical Division at well-known international foundation construction companies. In 1998 he became Professor and Director at the Institute for Foundation Engineering and Soil Mechanics at the Ruhr-University of Bochum where he worked until 2007. Since 2007 he is Professor and Director of the Institute for Soil Mechanics and Rock Mechanics at the University (TH) Karlsruhe now KIT Karlsruhe Institute of Technology, where he initiated several scientific fundamental and applied projects and research groups.

He is author and editor of 5 books and has contributed as author and co-author to further 8 books. He has more than 200 publications in peer-reviewed international journals and he is reviewer for more than 12 scientific international journals. He is Member of the Editorial Board in international journals as "Soil Dynamics and Earthquake Engineering" and "Acta Geotechnica". He has also obtained 5 patents in Foundation Engineering. He is appointed as Inspector for EBA (Federal German Railway Authority) for railway construction activities including foundation engineering, tunnelling, soil dynamics, geosynthetics and micro tunnelling since 2002.

He is member of several international societies as the German Society for geotechnical Engineering (DGGT), the Society of Soil Mechanics and Foundation Engineering (ISSMFE), the Technical Chamber of Greece, the International Association for Advanced Boundary Element Methods (IAABEM) and of the Hong Kong Institution of Engineers (HHKIE). He has obtained several awards and prizes. He has been session chairman of more than 15 international conferences and has given more than 25 keynote lectures in international conferences. His main areas of consulting activities are in the fields of foundations of structures on soft ground, stability of slopes, determination of soil parameters in the case of earthquake for the foundation of a nuclear power plant as well as estimation of surface waves caused by travelling trains in the close proximity due higher train velocities. He was acting as consultant in excavations in urban environments under difficult ground conditions. He has long-term academic experience in teaching soil mechanics and rock mechanics and he is supervisor of more than 30 dissertations and 4 habilitations.