

## 8ICEG Invited Lecture



### **Prof. Abdelmalek Bouazza**

Professor, Monash University, Department of Civil Engineering, Melbourne, Australia

### **Invited Lecture Title**

Failures in Containment System: Lessons Learned  
*[16:30 - 17:00 , Monday 29<sup>th</sup> Oct. 2018]*

### **Biography**

Dr A (Malek) Bouazza is a Professor of Civil Engineering at Monash University, Melbourne, Australia. He is a Visiting Distinguished Professor at Zhejiang University, China. He is a Fellow of the Institution of Engineers (FIEAust). His research has been recognised by a number of awards including, recently, the 2018 International Geosynthetics Society Award for outstanding contribution to advances in the scientific and engineering developments of geosynthetics, the 2017 Telford Premium Prize, Institution of Civil Engineers, U.K., the 2015 R.M. Quigley Award (honourable mention) from the Canadian Geotechnical Society, the 2014 E.H. Davis Memorial Award from the Australian Geomechanics Society, among many others. Currently, he is the Chair of the International Society of Soil Mechanics and Geotechnical Engineering (ISSMGE) Technical Committee TC 215 on Environmental Geotechnics and the Secretary of ISSMGE TC308 on Energy Geotechnics. He is an editorial board member of 8 International Journals. In addition to his academic commitments, Dr Bouazza gives specialist advice for the industry both nationally and internationally. His work has included peer review of design for more than 30 municipal solid waste and hazardous landfills and tailings storage facilities in Australia, Thailand, Peru and other countries. He has led and co-wrote the key liner components of new landfill standard (Best Practice Environmental Management: Siting, design, operation and rehabilitation of landfills, EPA Publication 788) for the State of Victoria, Australia. Dr Bouazza has been a key advisor to EPA Victoria on landfill design and operation and has been appointed in 2015 to the EPA Victoria independent landfill expert panel to provide peer review advice on complex landfill proposals to improve the efficiency and certainty associated with landfills approval process. He has performed, in this capacity, peer review of the lining design of most of the major landfills in Victoria.

### **Abstract**

Forensic investigation of failures plays an important part in the improvement of the understanding of the key parameters that govern the performance of waste containment

facilities. Important lessons can be learned regarding the significance of the assumptions, parameters and methods used in design and on the controlling influence of site conditions and construction processes. The lecture will explore the causes of failures of several cases and will discuss lessons learned from these cases.