

## Event Report

### The 5<sup>th</sup> International Conference on Geotechnics for Sustainable Infrastructure Development (GEOTEC HANOI 2023), Hanoi, Vietnam

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The series of International Conference on Geotechnics for Sustainable Infrastructure Development (GEOTEC HANOI, GH) was organized successfully in 2011, 2013, 2016, 2019 and 2023 in Hanoi and it has become a well-known event not only in Vietnam but also internationally for its excellent quality and organizational scale. Each conference was a great event for scholars and professional engineers from around the world to share and learn the most up-to-date knowledge and technologies in the field of geotechnical engineering. At the conferences, world-class experts delivered keynote lectures: Prof. Sven Hansbo (Sweden), Prof. Kenji Ishihara and Dr. Hiroshi Yoshida (Japan), Prof. Harry G. Poulos (Australia), Prof. Pieter A. Vermeer (Netherlands), and Prof. Alain Guilloux (France) in GH2011; Prof. Rolf Katzenbach (Germany), Prof. Alain Guilloux (France), Prof. Fumio Tatsuoka (Japan), Prof. Kenichi Soga (United Kingdom), Prof. Helmut Schweiger (Austria), and Prof. Sven Hansbo (Sweden) in GH2013; Prof. Bengt H. Fellenius (Canada), Prof. Buddhima Indraratna (Australia), Prof. Chang-Yu Ou (Chinese Taipei), Dr. Jamie Standing (UK), and Prof. Kazuya Yasuhara (Japan) in GH2016; Prof. Harry Poulos (Australia), Prof. Adam Beruijen (Belgium), Prof. Masaki Kitazume (Japan), Prof. Delwyn Fredlund (Canada), Prof. Lidija Zdravkovic (UK), and Prof. Mark Randolph (Australia) in GH2019. Each event was an excellent chance for sponsors and exhibitors to show and promote their services.

The 5th International Conference, GEOTEC HANOI 2023 (GH2023), which was organized by FECON Corporation, Vietnam Society for Soil Mechanics and Geotechnical Engineering (VSSMGE), Japanese Geotechnical Society (JGS), Thuyloi University, and Vietnam Petroleum Institute, took place on December 14-15, 2023 at the National Convention Center, Hanoi, Vietnam. The conference is honorably patronized by the International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE) and Japan International Cooperation Agency (JICA). Six following key themes were included in the conference:

1. Deep foundation
2. Tunneling and underground spaces
3. Ground improvement
4. Landslide and erosion
5. Geotechnical modelling and monitoring
6. Offshore wind power and coastal geotechnics

The conference warmly welcomed nearly 1200 attendees from 40 countries in the world (Fig. 1 and Fig. 2). All the attendees enjoyed more than 150 very interesting technical presentations and especially 8 excellent keynote lectures and specially invited lectures delivered by world-class experts (Fig. 3) as follows:

1. Pile foundations: 80 years of research and practice  
by Prof. Alessandro Mandolini – University of Campania (Italy), Chair of ISSMGE TC212
2. Urban tunnelling – The challenges of creating underground space in historic cities  
by Prof. Giulia M.B. Viggiani – University of Cambridge (UK), Chair of ISSMGE TC204
3. Ground improvement  
by Prof. Rainer Massarsch – Geo Risk & Vibration Scandinavia AB (Sweden)
4. Continuum and discrete modelling of penetration problems  
by Prof. Antonio Gens – Technical University of Catalonia (Spain)
5. Prediction and detection of backward erosion piping of river levees  
by Prof. Mitsu Okamura – Ehime University (Japan), Vice President of Japanese Geotechnical Society
6. The ageing behaviours of offshore piles driven in clays, sands and chalks  
by Prof. Richard Jardine – Imperial College London (UK)
7. Geotechnical philosophy and cases of site reuse  
by Dr. Marc Ballouz (USA) – President of ISSMGE
8. On the landslide susceptibility and resilience with impact of climate change  
by Prof. Keh-Jian Shou – National Chung-Hsing University (Chinese Taipei), Vice President Asia of ISSMGE

Along with participating the conference sections, the attendees also had a chance to participate the technical tour to Metro line 3 construction site, Hanoi (Fig. 4) and the visiting tour to Ha Long Bay, a world heritage of Vietnam (Fig. 5).



**Fig. 1. Photo of the conference hall**



**Fig. 2. Photo of the attendees.**



Fig. 3. Keynote and invited speakers receiving presents from the conference organizer



Fig. 4. Technical tour to Metro line 3 construction site, Hanoi



Fig. 5. visiting tour to Ha Long Bay