

Innovation in Geotechnical Engineering (Jan 23, 2024)

Online Zoom Webinar

Time	Lecture
10:00-10:15	Registration
10:15-10:20	Welcoming address (Jong-Sub Lee, PI, Hyper-converged Forensic Research Center for Infrastructure)
10:20-10:30	Complimentary address (Young Uk Kim, President, Korean Geotechnical Society KGS)
Session 1: Geotechnical Modeling and Monitoring	
Chair: Jong-Sub Lee	
10:30-11:00	Predictive Groundwater Analysis Based on the Hydrogeological Model of Taichung Basin, Taiwan/ Keh-Jian Shou (<i>Vice President Asia in ISSMGE, National Chung-Hsing University, Taiwan</i>)
11:00-11:30	Monitoring of Peanut-shaped TBM Launching Shaft Excavation using Distributed Fibre Optics Sensing Technique/ Andy Leung (<i>President in Hong Kong Geotechnical Society, The Hong Kong Polytechnic University, Hong Kong</i>)
11:30-12:00	Text Mining from Geotechnical Report: Integrated Approach by Convolutional Neural Network and Rule-based Algorithm/ Tae Sup Yun (<i>Professor, Yonsei University, Korea</i>)
12:00-13:00	Lunch
Session 2: Forensic Failure Assessment	
Chair: Tae Sup Yun	
13:00-13:30	Evaluation Criteria for Safety of Agriculture Small Dams by AHP Method/ Eun Chul Shin (<i>Former Vice President Asia in ISSMGE, Incheon National University, Korea</i>)
13:30-14:00	Intersecting Geo-Hazard Analysis and Infrastructure Planning for Sustainability/ Mandip Subedi (<i>President of Nepal Geotechnical Society, Pokhara University, Nepal</i>)
14:00-14:30	Soil Stabilization Using a Novel Protein-based Biopolymer/ Yong-Hoon Byun (<i>Professor, Kyungpook National University, Korea</i>)
14:30-15:00	Break
Session 3: Piling and Foundations	
Chair: Yong-Hoon Byun	
15:00-15:30	Comparison of Bearing Capacity of Model Boring DDS and CFA Piles on Problematical Soil Ground of Kazakhstan/ Askar Zhussupbekov (<i>Former Vice President Asia in ISSMGE, Eurasian National University, Kazakhstan</i>)
15:30-16:00	Shallow Geothermal Energy: Energy Foundations in Buildings and Infrastructure Projects and the Impact of Groundwater Flow/ Guillermo Narsilio (<i>Professor, The University of Melbourne, Australia</i>)
16:00-16:30	Geothermal Energy Piles, Applications and Research Aspects/ Fardin Jafarzadeh (<i>President of Iranian Geotechnical Society, Sharif University of Technology, Iran</i>)
Closing comments	

Challenges in Geotechnical Engineering (Jan 24, 2024)

Online Zoom Webinar

Time	Lecture
09:50-10:00	Preparation
Session 4: Advanced Characterization Techniques Chair: Tae Sup Yun	
10:00-10:30	Assessment of Geotechnical Properties using Exponential Compaction Model/ Jong-Sub Lee (<i>Professor, Korea University, Korea</i>)
10:00-10:30	Surface Wave Evaluation of Deep Soil Mixing/ Darren Chian Siau Chen (<i>Vice President of the Geotechnical Society of Singapore, National University of Singapore, Singapore</i>)
10:00-10:30	A holistic approach for data-driven probabilistic site characterization/ Jianye Ching (<i>President of Chinese Taipei Geotechnical Society, National Taiwan University, Taiwan</i>)
11:30-12:00	Deep Shear-Wave Velocity Profile: Case of Depok Campus UI/ Widjojo Adi Prakoso (<i>President of the Indonesia Society for Geotechnical Engineering, Universitas Indonesia, Indonesia</i>)
12:00-13:00	Lunch
Session 5: Safety and Serviceability I Chair: Yong-Hoon Byun	
13:00-13:30	Ethics and Dilemma in Engineering/ Ikuo Towhata (<i>Former Vice President Asia in ISSMGE, Kanto Gakuin University, Japan</i>)
13:30-14:00	Innovative Climate-Smart Nature-based Technology for Slope Protection/ Mohammad Shariful Islam (<i>Professor, Bangladesh University of Engineering and Technology, Bangladesh</i>)
14:00-14:30	Overview on Ground Treatment Design for Electrified Double Track in Northern Part of Peninsular Malaysia/ Lee Peir-Tien (<i>President in Malaysian Geotechnical Society, Malaysia</i>)
14:30-15:00	Break
Session 5: Safety and Serviceability II Chair: Jong-Sub Lee	
15:00-15:30	Towards to harmonizing using of the probabilistic seismic hazard assessment results in seismic codes/ Pulod Aminzoda (<i>President of Tajik Geotechnical Society, National Academy of Sciences of Tajikistan, Tajikistan</i>)
15:30-16:00	Innovation in Geotechnical engineering from soil mechanics to geotechnical engineering/ Amjad Agha (<i>President of Pakistan Geotechnical Engineering Society, Pakistan</i>)
16:00-16:30	Case Studies - Forensic Study of Foundation Failures and Monitoring Impact during High-rise Demolition/ Anil Joseph (<i>President of Indian Geotechnical Society, Geostructurals Pvt Ltd., India</i>)
Closing comments	