

ICGE-Colombo 2026 - FULL CONFERENCE PROGRAMME

24 & 25 August 2026 | Cinnamon Grand, Colombo | Theme: "Resilient Geotechnics for a Sustainable Future"

DAY 1 - MONDAY 24th AUGUST 2026

8.00 - 8.30	Registration and Welcome Drink		
8.30 - 10.00	INAUGURAL SESSION (Ceremonial Event)		
10.00 - 10.30	Morning Tea		
MORNING SESSION Chair: Eng. K L S Sahabandu / Dr. K H S M Sampath			
10.30 - 10.35	Keynote Lecture 1 - Introduction of the keynote lecturer - Dr. S K Navaratnarajah		
10.35 - 11.20	KEYNOTE LECTURE 1 - Prof. B. Indraratna Sustainable Transport Infrastructure Development Embracing a Circular Economy		
11.20 - 11.25	Keynote Lecture 2 - Introduction of the keynote lecturer - Prof. Udeni Nawagamuwa		
11.25 - 12.10	KEYNOTE LECTURE 2 - Dr. Anil Joseph From Distress to Stability: Geotechnical Solutions for Infrastructure Projects in Complex Ground Conditions		
12.10 - 12.15	Keynote Lecture 3 - Introduction of the keynote lecturer - Prof. Nalin De Silva		
12.15 - 13.00	KEYNOTE LECTURE 3 - Prof. S.P.G. Madabhushi Kinematic and inertial interaction of pile groups in sloping clay ground subjected to earthquake loading		
13.00 - 14.00	Lunch Break		
14.00 - 15.40 TECHNICAL PAPERS PARALLEL SESSION 1	Session A-1 (Centre) Transportation Geotechnics Chair: Prof. Chandana Kurukulasuriya / Er. Darshan Babu Adhikari	Session B-1 (Left Corner) Geotechnical Modelling, AI and Experimental Investigations Chair: Er. (Ms) Kalpana Adhikari / Prof. Udeni Nawagamuwa	Session C-1 (Right Corner) Natural Disaster Resilience, Engineering Geology, Excavations and Case Histories Chair: Prof. A. Murali Krishna / Prof. Nadeej Priyankara
14.00 - 14.20	THEMATIC LECTURE: Advances in PVD and Vacuum Preloading Systems for Stabilising Transport Embankments and Unstable Soft Soil Terrains <i>Prof. C. Rujikiatkamjorn</i>	THEMATIC LECTURE: Performance Evaluation of High-Capacity Drilled Shafts Using Bi-Directional, Top-Down, and Dynamic Load Testing: Case Studies and Lessons Learned <i>Er. Ravi Kiran Vaidya</i>	THEMATIC LECTURE: Geohazards and Road Slope Instabilities in Nepal: Challenges and way forward <i>Dr. Mandip Subedi</i>

14.20 - 14.30	Advanced Rail Track Solutions with Tyre Rubber and Mining Residues <i>Y. Qi, B. Indraratna</i>	Deriving equivalent strip surcharges for 2D analysis of granular slopes <i>A.J. Amarasinghe</i>	Introduction of Probabilistic Concepts in Landslide Mitigation Designs (Case history - Ginigathhena Landslide) <i>D.G.G.K.Somarathna, S.A.S. Kulathilaka</i>
14.30 - 14.40	Influence of fine particle contamination on the shear response and degradation characteristics of railway ballast <i>J.A.A.L. Jayasinghe, S.K. Navaratnarajah</i>	Numerical analysis of seepage and lateral deformation in Maduru Oya dam <i>N.G.G.S.D. Nanayakkara, L.C. Kurukulasuriya</i>	Geotechnical Investigation and Mitigation Design of Rainfall-Induced Landslides Along Mechi Highway, Eastern Nepal: Lessons from the October 2025 Extreme Rainfall Event <i>Rajan KC</i>
14.40 - 14.50	Q & A Session	Q & A Session	Q & A Session
14.50 - 15.00	Laboratory and DEM Investigation of Shredded Rubber for Partial Replacement of Railway Ballast <i>C. Thanusikan, E. Mathynushan, S.K. Navaratnarajah</i>	Experimental and Constitutive Modeling Approaches to Anisotropic High-Cycle Behavior of Sand <i>Xuetao Wang, Yifei Sun, Yi Hong, Lizhong Wang, Zhiwei Gao</i>	Rainfall Conditions Affecting Shallow Foundations on Unsaturated Slopes <i>J.W. Mburu, A.J. Li</i>
15.00 - 15.10	Waste Tyres as a Green Solution for Traditional Railway Ballast <i>P. Suganathan, K. Sageepan, S.K. Navaratnarajah</i>	Hydromechanical Coupling of Unsaturated Soils <i>Pushkar Nath Chaurasia, Manash Chakraborty</i>	Development of a Tool for Roadside Slope Risk Assessment in Sri Lanka <i>D.G.V. Gamage, S.A.S. Kulathilaka, H.W.S.D. Hewawasam</i>
15.10 - 15.20	Role of recycled material inclusions on the dynamic response of ballasted railway track and implications to ballast stability <i>R. S. Malisetty, B. Indraratna, Y. Qi</i>	3D Numerical Assessment of MSM & Excavation Adjacent to Light Rail <i>H. Wang, A. Shrestha, B. Land</i>	Effect of rock discontinuities on rain induced landslides in Sri Lanka <i>J. P. D. C. M. Karunarathne, S. A. S. Kulathilaka</i>
15.20 - 15.30	Effect Evaluation of Ballast Aging on Rainfall Infiltration Behavior of Ballast-Roadbed System <i>S. K. Prajapati, T. Ishikawa, T. Nakamura</i>	Image-Based Meso-Structural Modeling of Fracture in Rigid Pavement Concrete <i>Nitish Kumar, N.S.S.P Kalyan, Ramesh Kannan Kandasami, Alagappan Ponnalagu</i>	Evaluating Hibiscus tiliaceus as a Nature-based Solution for Riverbank Stability: Hydro-Mechanical Contributions of Root Suction and Effects of Self-Weight <i>M.D.J.P. Wickramasooriya, U.P. Nawagamuwa, M.A. Pallewattha</i>
15.30 - 15.40	Q & A Session	Q & A Session	Q & A Session
15.40 - 16.00	Tea Break		
16.00 - 18.00 TECHNICAL PAPERS PARALLEL SESSION 2	Session A-2 (Centre) Transportation Geotechnics Chair: Prof. Chandana Kurukulasuriya / Er. Darshan Babu Adhikari	Session B-2 (Left Corner) Geotechnical Modelling, AI and Experimental Investigations Chair: Er. (Ms) Kalpana Adhikari / Prof. Udeni Nawagamuwa	Session C-2 (Right Corner) Natural Disaster Resilience, Engineering Geology, Excavations and Case Histories Chair: Prof. A. Murali Krishna / Prof. Nadeej Priyankara

16.00 - 16.10	Localisation and depth-dependent soil fluidisation under cyclic loading: experimental and theoretical perspectives Bin-Hua Xu, B. Indraratna, C. Rujikiatkamjorn, T. Nguyen	A practical ANN tool to predict shear strength of rubber-granular mixtures H. Hunt, B. Indraratna, R. Malisetty, Y. Qi, C. Rujikiatkamjorn	Effectiveness and Suitability of Soil Nailing with Subsurface Drainage as a Shoring Technique for Deep Excavation (Case Study from the Faculty of Medicine, University of Sabaragamuwa) P.A.D.L.S. Chandrasiri, H.W.S.D. Hewawasam, S.A.S. Kulathilaka
16.10 - 16.20	Influence of train vehicle configuration on railway track–soil dynamics I. Wijayarathne, B. Indraratna, B. Xu, T. Nguyen	Evaluating particle shape effects on shear behavior of large-size granular materials using DEM and ANN L. Nehrujan, S. Jakiththan, R. S. Alahapperuma, A. C. Amarasingha, S. K. Navaratnarajah	Liquefaction-induced settlements of dams with and without seepage Y. Kishore, S.P.G. Madabhushi
16.20 - 16.30	Enhancing the Engineering Properties of Topsoil with Quarry Dust as a Sub-Base Substitute in Highway Construction: A Case Study on the Ruwanpura Expressway Stage 1 H. Wimalakeerthi, S.M. Pitawala, G. Udayakumara	Quantifying the Effective Treatment Depth of Vibro Compaction through CPT based Field Verification U.T Kodithuwakku	Erosion control with virgin HDPE mesh for superior durability in hybrid engineering G. Fidon, S. Charati, Y. Padule, S. Restall
16.30 - 16.40	Real-Time Traffic Decisions for Flood-Affected Unbound Pavements C. Gallage, A. Dushmantha	The Use of Tension Piles to Reduce Earthquake-induced Movements of Shallow Rectangular Tunnels in Very Soft Clay N.G.L.H. Lee, S.P.G. Madabhushi	Case Studies of Vibro-Displacement Stone Columns in Variable Soil Types L. Buhagiar
16.40 - 16.50	Q & A Session	Q & A Session	Q & A Session
16.50 - 17.00	Empirical Correlations developed for the Dynamic Cone Penetration Index (DCPI) and the California Bearing Ratio (CBR) for Tropical nature soils of Sri Lanka K.L.I. Ranasoma, K.H.S.M. Sampath	Fiber-reinforced soil-binder columns for enhanced seismic performance: a critical review of current practices and future research directions P.C.M. Wijesena, N.H. Priyankara, H.G.S. Mayuranga, G.H.M.J.S. De Silva	Numerical Investigation of Micropile Effectiveness in Slope Stabilization using Finite Element Analysis Adarsh Kumar, Payal Tandel, Anoop Singh
17.00 - 17.10	Effect of Sewer Heat on Moisture Redistribution during Ground Freezing around Manholes T. Tokoro, K. Hanaoka	Undrained and Drained Shear Strength Behavior of Bannari Silt with Varying Mica Content S. Dutta, Z. Fayaz, A. Sachan	Effects of System Stiffness on Damage of Adjacent Structures for Excavation in Soft Marine Clay Thayanan Boonyarak, Zaw Zaw Aye, Aye Yadana Aung, Siam Aunmongkonmit
17.10 - 17.20	CPT'u Parameters and Atterberg Limits J.C. Gress, M. Ferreira	Influence of particle gradation on shear behaviour of railway ballast W.W.P.Sanjula, G.G.S.Sampath, S.K.Navaratnarajah	Enhance Rock Mass Classification for Pile Foundations in Sri Lanka: Integrating Expert Knowledge and Fuzzy Logic G. H. I. Diyes, H. S. Thilakasiri, U. G. A. Puswewala

17.20 - 17.30	Design and construction of a road on difficult terrain – case study <i>V. Jeyakanthan, A. Peiris, K. Chan, D. Panopoulos</i>	Cyclic Response of Pond Ash Subjected to Higher Cyclic Stress Ratio <i>Sujay Teli, Ajanta Sachan</i>	Analysis for axially loaded pile in a soil deposit with linearly varying modulus <i>Nikita Joshi, Bipin K. Gupta</i>
17.30 - 17.40	Compaction and Energy-Absorbing Characteristics of Mining Rejects–Tyre Fibre Mixtures for Railway Capping Layers <i>K. Wijesooriya, Y. Qi, B. Indraratna</i>	Influence of pile spacing on the seismic behaviour of pile groups in clay slopes <i>S.S.W. Weerasuriya Achchillage, S.P.G. Madabhushi</i>	Numerical investigation on the feasibility of combined pile raft foundations compared to pile foundations <i>A. Garg, V.A. Sawant</i>
17.40 - 18.00	Q & A Session	Q & A Session	Q & A Session
END OF DAY 1			
DAY 2 - TUESDAY 25th AUGUST 2026			
8.30 - 9.00	Morning Tea		
MORNING SESSION Chair: Prof. Saman Thilakasiri / Dr J S M Fowze			
9.00 - 10.50	Reduction of Risk Landslides: Challenges, Methodology, Achievements and Way Forward with Cyclone Dithwa By NBRI Team - Dr. Asiri Karunawardena, Dr. Gamini Jayatissa, Dr. Sanchitha Jayakody, and Dr. Mihira Lakruwan Chair: Prof. Athula Kulathilaka / Prof. Udeni Nawagamuwa		
10.50 - 10.55	Keynote Lecture 4 - Introduction of the keynote lecturer - Prof. Nadeej Priyankara		
10.55 - 11.40	KEYNOTE LECTURE 4 - Prof. Jayantha Kodikara Geotechnical Resilience: Engineering for Adaptation, Recovery and Sustainability		
11.40 - 11.45	Keynote Lecture 5 - Introduction of the keynote lecturer - Dr. Mihira Lakruwan		
11.45 - 12.30	KEYNOTE LECTURE 5 - Prof. K.J. Shou On the Landslide Resilience under Climate Change		
12.30 - 13.30	Lunch Break		
AFTERNOON SESSION Chair: Prof. Nalin De Silva / Dr. Sanchitha Jayakody			
13.30 - 13.35	SOP Lecture - Introduction of the SOP lecturer - Eng. R M Abeysinghe		

13.35 - 14.20	STATE-OF-PRACTICE LECTURE - Dr. R.B. Kelly State of Practice: Embankment Settlement on Soft Soils		
14.20 - 14.35	BRIGHT SPARK LECTURE - Dr. Jing Chen Experimental Investigation and Performance Evaluation of Rubber Granule-Treated Ballast under Simulated Train-Induced Impact Loads		
14.35 - 14.50	Changeover to parallel sessions		
14.50 - 15.50 TECHNICAL PAPERS PARALLEL SESSION 1	Session D-1 (Centre) Advancement in Ground Improvement Chair: A/Prof. Chaminda Gallage / Er. Ravi Kiran Vaidya	Session E-1 (Left Corner) Environmental and Energy Geotechnics Chair: Prof. S.P.G. Madabhushi / Dr. S K Navaratnarajah	Session F-1 (Right Corner) Problematic Soils, Stabilisation and Sustainable Materials Chair: Dr. Ashok Peiris / Er. Rajan KC
14.50 - 15.10	THEMATIC LECTURE: Geotechnics in Roads for Resilience: Reflections from Field Experiences Er. (Ms) Kalpana Adhikari	THEMATIC LECTURE: Assessment of Water Leakage in Low-Pressure Headrace Tunnel: A Case Study of the Sanjen Hydroelectric Project Er. Darshan Babu Adhikari	THEMATIC LECTURE: Geosynthetics as Sustainable Foundation Systems for Clays of Different Strength Prof. A. Murali Krishna
15.10 - 15.20	Back Analysis of Gravel Compaction Piles in Sri Lankan Peaty Clay G.K.G.M. Karunasena , S.A.S. Kulathilaka	Effect of Slag–Fly ash–Lime Mix on Soil–Bentonite Cutoff Wall Performance Purimetla Sai Chenna Kesava Charyulu , Bande Giridhar Rajesh	Secondary settlement in organic soils: a bibliometric- informed review Z. Song, G.A.N. Jayaratne , H.S. Thilakasiri
15.20 - 15.30	Motorway Upgrading over Very Soft Marine Clay – Ground Improvement Works S. Iyathurai, T. Nall, W. Premadasa	Temporal evolution of desiccation cracking in compacted clays using DIA S. Majumder , A. Sachan	Synergistic Influence of Tannery Sludge Waste and Lime on the Engineering Properties of Expansive Soil M.Hirthick , S.Bhuvaneshwari
15.30 - 15.40	Stabilization of Expansive Soil using Alkali Activated Ground Granulated Blast Furnace Slag Prashant Kumar , Bala Ramudu Paramkusam , Surya Pratap Suman	Effects of Vacuum on Bacterial Behavior by Microbially Induced Carbonate Precipitation for Lunar Regolith Biocementation Yuru Chen , Gyeongjo Min, Daisuke Fukuda, Satoru Kawasaki	Particle morphology & concrete interface roughness on shear behaviour D.Y.T. Nimantha , K.H.S.M. Sampath
15.40 - 15.50	Q & A Session	Q & A Session	Q & A Session
15.50 - 16.10	Tea Break		

16.10 - 17.00 TECHNICAL PAPERS PARALLEL SESSION 2	Session D-2 (Centre) Advancement in Ground Improvement Chair: A/Prof. Chaminda Gallage / Er. Ravi Kiran Vaidya	Session E-2 (Left Corner) Environmental and Energy Geotechnics Chair: Prof. S.P.G. Madabhushi / Dr. S K Navaratnarajah	Session F-2 (Right Corner) Problematic Soils, Stabilisation and Sustainable Materials Chair: Dr. Ashok Peiris / Er. Rajan KC
16.10 - 16.20	Stabilization of Peaty Clay with Silica Fume and Cement A. Yoganathan , N.H. Priyankara, D. Robert, S. Costa	Lime Effect on Unconfined Compressive Strength of Cadmium-Contaminated Soil M. A. Rahman , R. K. Sah, A. K. Jha	Geosynthetic Shored Reinforced Soil Structure with High- Energy Rockfall Barriers at Rangpo Railway Yard Development under Seismic and Railway Loading Conditions Dilip Kumar S K , Atanu Adhikari, Debraj Das
16.20 - 16.30	Prediction of jet grouting column diameter with machine learning W. J. Wehr	Liquefaction Performance Assessment for Solar Farms L Buhagiar	Compressibility and permeability of flocculated fine-grained sediment M. Liao , Y. Watabe
16.30 - 16.40	Challenges in Quality Assurance for Ground Improvement Using Mass Soil Mixing W. Premadasa , S. Iyathurai, B. Land, D. Carson	Impact of clay layers on hydrogen plume dynamics during underground storage C.J. Nanayakkara , M.S.A. Perera, J. Shang, Z.F. Islam	Experimental Evaluation of Heave Control in Expansive Soil Using Granular Anchor Piles and Geogrid Encasement S. Singh , V.A. Sawant
16.40 - 16.50	Evaluating Degree of Consolidation in PVD-Improved Soft Clay: A Comparison of Surface and Subsurface Observational Methods L. Karagoz , B. Indraratna, C. Rujikiatkamjorn, P. Kanty	Applicability of microwave oven in rapid determination of moisture content in compacted granular soil S.S.K. Weththige, S.C. Walpita	Influence of Inertial Forces on Fluid Flow in Geological Fracture Intersections D.P.H.D. Ubeseekara , K.H.S.M. Sampath, H. Hansika
16.50 - 17.00	Q & A Session	Q & A Session	Q & A Session
17.00 - 17.15	Closing Ceremony		
END OF DAY 2			

ICGE-Colombo 2026 - INAUGURAL SESSION PROGRAMME

24 August 2026 | Cinnamon Grand, Colombo | Theme: "Resilient Geotechnics for a Sustainable Future"

DAY 1 - MONDAY 24th AUGUST 2026 | 8.30 - 10.00 | INAUGURAL SESSION (Ceremonial Event)

TIME	PROGRAMME ITEM
8.30 - 8.40	Arrival of Guests and Ceremonial Procession
8.40 - 8.50	Lighting of the Traditional Oil Lamp
8.50 - 8.55	National Anthem
8.55 - 9.05	Welcome Address - Eng. K L S Sahabandu , President, SLGS / Conference Co-Chair
9.05 - 9.15	Address by the Vice President for Asia - Dr. Anil Joseph
9.15 - 9.35	Felicitation of Past Presidents of the Society
9.35 - 9.40	Screening of the Sponsors' Video
9.40 - 9.55	Presentation of Tokens of Appreciation to Sponsors
9.55 - 10.00	Vote of Thanks - Dr. K H S M Sampath , Secretary, SLGS / Conference Co-Secretary