

**The 8th Asian Conference on Geosynthetics**  
**10 - 13 June 2025**  
**Brisbane Convention & Exhibition Centre**

*As at 24 April 2025 and subject to change*

**Tuesday, 10 June 2025**

Room	Boulevard Auditorium			
08:30	Opening and Fumio Tatsuoka Lecture			
08:30	Opening Ceremony & Welcome to Country			
09:00	Studies and practices of geosynthetic reinforced soil abutments and integrated bridge systems <b>Chao Xu</b>			
10:00	Morning Tea			
Room	Boulevard Auditorium	Boulevard B1	Boulevard B2	Boulevard B3
Session	Un-Conference Session	Concurrent Session 1B	Concurrent Session 1A	Concurrent Session 1C
10:30	Sustainable/Green Geosynthetic Engineering: Applications in MSE Walls and Sponge Cities <b>Nelson Chou</b>	Prediction of Pore Size Characteristics of Needle-Punched Nonwoven Geotextiles Under Laterally Constrained Condition <b>Keyi Li</b>	Masking Effects of Overlaying Aggregates on Geotextile Drainage Layers <b>Bowei Yu</b>	Numerical study of the dynamic response of stone column and geosynthetic encased stone column in liquefiable sands <b>Mingchang Ji</b>
10:50	Un-conference Sustainability Theme	Geosynthetic Clay Liners, why hydraulic conductivity (k-value) is the wrong value for a tender <b>Henning Ehrenberg</b>	Effect of interface temperature on soil-reinforcement interaction performance based on pullout tests <b>Huaxin Han</b>	Numerical modelling of railway embankment resting on soft soil reinforced with granular columns in different arrangements <b>Anandha Raj Lenin Kumar</b>
11:10		Performance of Bituminous Geomembrane Seams Exposed to Tensile Stress and to Elevated Temperature <b>Eric Blond</b>	Influence of cyclic load on accumulated pullout displacement and pullout stiffness of geogrid embedded in ground <b>Charan Kameri, Kenji Watanabe</b>	Liquefaction instability mitigation with geosynthetics in the world's highest observation wheel project in Dubai <b>Gianluca Spadaro, Ratnakar Mahajan, Matteo Lelli</b>
11:30		Long-term creep estimation of HDPE geogrid using temperature-accelerated stress relaxation techniques <b>Rawiwan Eakintumas</b>	Quantifying the effects of geogrid tensile stiffness on permanent deformation and resilient modulus in unbound granular materials. <b>Ziheng Wang</b>	Comparative 3D Numerical Analysis of Reinforced Granular Piles for Enhancing Embankment Performance on Soft Soils: Evaluating Ordinary, Encased, and Basal-Reinforced Configurations <b>Shaïd Yousof</b>
11:50		Performance of colored HDPE geomembranes exposed to tropical climate <b>Colin Lim</b>	Modified Coir geotextile-Soil interaction through interface shear tests <b>Divya P.v.</b>	Full-scale experiment and numerical studies of a geosynthetic reinforced pile-supported embankment <b>Yining Hu</b>
12:10		Study on Ease of Penetration of Prefabricated Vertical Drain through Geotextile Tubes <b>Jun Ming Soh</b>	BGM Interface shear strength at elevated temperatures, including field observations <b>Ryan Hackney</b>	Recommendations on the application of graph-analytical method of pile settlement calculation taking into account pile breakout and slippage <b>Anastasiia Almakavea</b>
12:30	Lunch Break			
Room	Boulevard Auditorium	Boulevard B1	Boulevard B2	Boulevard B3
Session	Barriers	Stabilization	Reinforcement	Hydraulics
13:30	Geosynthetic barriers in energy projects <b>Malek Bouazza</b>	Kazakhstan's experience in the use of geosynthetic materials in road construction <b>Bagdat Teltayev</b>	Further details to be available soon <b>Chris Lawson</b>	Further details to be available soon <b>Eric Blond</b>
15:00	Afternoon Tea			
Room	Boulevard Auditorium	Boulevard B1	Boulevard B2	Boulevard B3
Session	Speed Consulting	Concurrent Session 2A	Concurrent Session 2B	Concurrent Session 2C
15:30	Speed Consulting Barriers Theme (Landfills & Dams) Hosted by <b>Siamak Paulson</b>	Effect of Various Reinforcing Measures on Case study: a 13-meter high single berm	Investigations on cracking characteristics of geogrid on	Challenges and Solutions of Utilizing Performance of Sludge-Filled Geotextile
15:50		Choice on reinforcement stiffness for numerical modeling of GRS abutments under working stress conditions <b>Jialong Deng</b>	Impact of base and subgrade stabilization with geotextiles in pavements using accelerated pavement testing <b>Gino Sicha Flores</b>	Increasing Dune System Resilience and Effectiveness in Open Coast Conditions with Geotextiles <b>Simon Restall</b>
16:10		Comparing the seismic responses of single and two-tiered reinforced soil slopes <b>Ya Meng</b>	Sustainable pavement solution for soft & expansive soils – South Station Road, Ipswich (case study) <b>Amar Singh</b>	Case Study- Application of Geotextile tube in the construction of Reclamation Dyke in Eco-sensitive zone. <b>Dola Roychowdhury</b>
16:30		Utilization of a Mechanically Stabilized Earth EFFECT OF CLIMATE CONDITIONS ON THE	Experimental study on geosynthetic- Proper bond rates of asphalt Geosynthetics	Channel protection using geosynthetic Evaluating the Extent and Impact of
16:50	Boulevard Foyer			
17:30	Diversity, Equality and Inclusive Session			
18:15	Welcome Reception			

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**Wednesday, 11 June 2025**

Room	Boulevard Auditorium			
08:30	Keynote Session			
08:30	Barrier and Hydraulic Application: Tunnelling and underground transportation <b>Chungsik Yoo</b>			
09:15	Use of geosynthetics to prevent soft subgrade instability and fluidisation under cyclic loading with special reference to railways <b>Buddhima Indraratna</b>			
10:00	Morning Tea			
Room	Boulevard Auditorium	Boulevard B1	Boulevard B2	Boulevard B3
Session	Un-conference	Concurrent 3A	Concurrent 3B	Concurrent 3C
10:30	Quality and Testing Theme Further details to be available soon	Active geocomposites as a Sustainable solution for PFAS contamination on landfills <b>Gus Martins</b>	Robust, Non-Invasive, Instrumentation of Geosynthetics Using Novel Electrical Sensing <b>Trigg Sharp</b>	Calibration of Resistance Factor for the Rupture Limit State of Geosynthetic Reinforced Soil Walls Considering Combined Installation Damage and Creep <b>Yoshihisa Miyata</b>
10:50		Heat mitigation in compacted clay liners in municipal solid waste landfills <b>Vivi Anggraini</b>	Innovative geofoam-geogrid composite for use in embankments in cold regions environment <b>Earl Marvin De Guzman</b>	Design of geosynthetics for erosion control using RUSLE equation <b>Matteo Lelli, Gianluca Spadaro, Ratnakar Mahajan</b>
11:10		Design and Construction Challenges of Cellular Confinement Systems for Landfill Slopes and Ponds <b>Roger Britto</b>	Geotextile Tube Installation at Deep Waters using Innovative Methods <b>Soon Hoe Chew</b>	Application of geosynthetic tube for marine engineering: From design to construction of tube dam for bored pile drilling onshore beach rocky slopes <b>Hoai Do Mai Thu</b>
11:30		GCL Internal Shear Strength and Testing: Challenges and Misunderstandings <b>Amir Shahkolahi</b>	Enhancing geotechnical properties of peat using industrial byproducts: a comprehensive experimental and numerical study <b>Afnan Ahmad</b>	A critical bearing capacity assessment under BR470 of the contribution of geosynthetic reinforcement to temporary working platforms using numerical methods <b>Abid Ali</b>
11:50		The use of cusped sheet geocomposite in low-risk rural landfill capping applications <b>Cory Dogger</b>	A case study of debris flow early warning system <b>Matteo Lelli</b>	Numerical analyses of reinforced embankment foundation systems subjected to reverse faulting <b>Emerson Edwige Michel</b>
12:10		FORENSIC INVESTIGATION OF LANDFILL CELL LEFT DORMANT FOR 4 YEARS <b>Christian Lisle</b>	PVC geomembranes, a reliable and sustainable alternative in hydraulic structures <b>Pau Climent</b>	Further Understanding of GCL Brittle Shear Behaviour under High Confining Stress <b>Hossein Ghiasinejad</b>
12:30	Lunch Break			
Room	Boulevard B1	Boulevard B2	Boulevard B3	Boulevard Auditorium
Session	China Session	India Session	Further details to be available soon	Further details to be available soon
13:30	Geosynthetic Products in China	Further details to be available soon <b>Sivakumar Babu</b>		
14:00	Application of Geosynthetics in High-Speed Railway Engineering in China			
14:30	Application of Geosynthetics in Mining Engineering in China			
15:00	Afternoon Tea			
Room	Boulevard B1	Boulevard B2	Boulevard B3	Boulevard Auditorium
Session	Speed Consulting	Concurrent 4A	Concurrent 4B	Concurrent 4C
15:30	Speed Consulting Mining Theme Hosted by <b>Graham Fairhead &amp; Liza Du Preez</b>	Geosynthetic-reinforced soil check dams: case study and numerical simulation <b>Chaicharn Thongthanawat</b>	High-temperature resistant HDPE geomembrane aging study for acidic mine waste containment <b>Dan Jones</b>	Interaction effect of piles and prefabricated vertical drains in soft clay <b>Sachini Dissanayake</b>
15:50		Flexible Geotextile Sand Container System to Mitigate Foreshore Erosion: A Case Study in Cocos Islands, Australia <b>Mohd Anas Adanan</b>	The essence of material compatibility in advanced barrier systems of existing TSFs <b>Vernita Govender, Edoardo Zannoni</b>	Response of Railway GRS Bridge Abutment under Freight Trains <b>Kunjan Saikia</b>
16:10		Ground Improvement Works using Prefabricated Vertical Drains for Reinforced Soil Wall system for Interchange cum Road Over Bridge at Kandla, Gujarat, India <b>Harsh Raval, Saurabh Vyas, Premal Shah</b>	Development of a High Performance Geosynthetic Drainage Net <b>Alex Gersch</b>	Innovative Methods of Using Tyre-Derived Aggregates for Railway Ballast- A Critical Review <b>Chathuri M.K. Arachchige</b>
16:30		Liquefaction Mitigation for LNG Storage Tanks: Design and Implementation of Sand Compaction Piles <b>Anil Bhandari</b>	Should geomembrane lined ponds/dams be covered with a ballast layer? <b>Jonathan Shamrock</b>	Evaluating the Impact of Geosynthetics on Unpaved Road Performance: A Small-Scale Cyclic Plate Loading Approach <b>Jiacheng Qiu</b>

16:50	<p>Challenging Environmental Containment for Large Crude Oil Tank Storage Facility <b>Alex Gersch</b></p>	<p>Surface Drainage Restoration In Mine Reclamation Using Geosynthetics Cementitious Composite Mat, GCCM <b>Lim Chong</b></p>	<p>BALLAST STABILISATION TO IMPROVE THE PERFORMANCE OF THE RAIL TRACK <b>Amir Shahkolahi</b></p>
17:10	<p>MSE wall structure with liner system for landfill vertical expansion in Sydney, Australia <b>Gary Schmetmann</b></p>	<p>Performance evaluation of Triaxial Geogrid-Reinforced C&amp;D Waste and Quarry Aggregate for the Base and Subbase Layers of Flexible Pavements <b>Barmavath Shiva Prasad, Balunaini Umashankar</b></p>	<p>An empirical model for the design of geogrid and geocomposite stabilized and reinforced unpaved roads <b>Nur Saleehah Raeza</b></p>
17:30	<b>Location</b> <b>Emporium Hotel Terrace Bar (Offsite)</b>		
18:00	<p>Innovative Uses of Geosynthetic Reinforced Fill - IGS Corporate Member Reception (by invite only)</p> <p><b>Chris Lawson</b> <b>Chew Soon Hoe</b> <b>John Cowland</b></p>		

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**Thursday, 12 June 2025**

**Room** Boulevard Auditorium

**Session** Keynote Session

**08:30** Geosynthetic technologies for resilient road networks  
**Yoshihisa Miyata**

**09:15** Latest advances in understanding the long-term performance of geomembranes in tailings storage facilities"-where are we now with BGMS  
**Kerry Rowe & Fady Abdelaal**

**10:00** Morning Tea

**Room** Boulevard Auditorium      Boulevard B1      Boulevard B2      Boulevard B3

**Session** Un-conference      Concurrent Session 5A      Concurrent Session 5B      Concurrent Session 5C

<b>10:30</b>	Erosion Control & Coastal Protection Theme <b>Further details to be available soon</b>	The importance of considering the construction rate of Geosynthetic-Reinforced and Pile-Supported Embankments in the estimation of settlements during construction <b>Viviana Manraviti</b>	The ongoing journey of geosynthetics and sustainable remediation within Oceania <b>Chris Nivison-Smith</b>	Evaluation of the Durability of HDPE Geomembranes Through Aging Tests from Nominal to High Performance Grade <b>Chin-Tai Lin</b>
<b>10:50</b>		Geosynthetic Seismic Isolation Concept for Reinforced Soil Walls <b>Yoshihisa Miyata</b>	Managing LFG risk with geosynthetic products <b>Alex De Guzman</b>	Investigation of the Critical Tearing Strength of Inlet Port Design <b>Jinyu Deng</b>
<b>11:10</b>		Strength and stiffness of sands reinforced with modified geocells <b>Aarya Krishna</b>	25 years of experience with a lysimeter system with geosynthetic clay liners <b>Henning Ehrenberg</b>	Analysis of Surface Temperatures and Expansion Behavior in HDPE and LLDPE Geomembranes with Different Surfaces in Field Applications <b>Ana Laura Cassini Souza Bernardinelli</b>
<b>11:30</b>		Use of geosynthetic reinforced structure for debris dam <b>Zoe Lin</b>	Designing with Geosynthetics in Roads Subjected to Freeze-Thaw Cycles: A Critical Review <b>Berjees Anisa Ikra, Cheng Lin</b>	Performance of Instrumented full-scale pavement sections on soft subgrade stabilised with geogrid/geocomposite <b>Chaminda Gallage</b>
<b>11:50</b>		Geotextile Reinforced Sludge Pond Capping <b>Kwan Shen (tony) Tong</b>	Predictive Models for Metro Station Settlement During Twin-Tunneling: Leveraging Machine Learning and Soil Rheological Properties <b>Victoria Rud, Lyubov Ermoshina</b>	Lateral loading tests of buried pipes with geocell-reinforcement against uplift <b>Taishi Nagatani</b>
<b>12:10</b>		Assessing the effectiveness of composite soil reinforcement <b>Askar Zhussupbekov</b>	Advantages of Geomembrane Faced Rockfill Dams over Concrete and Asphalt Faced Rockfill Dams <b>John Cowland</b>	HYBRID SOLUTIONS: MECHANICALLY STABILIZED EARTH (MSE) WALLS AND SLOPES SUPPORTED BY IMPROVED GROUND <b>Mark Morales</b>
<b>12:30</b>		Lunch Break		

**Room** Boulevard Auditorium      Boulevard B1      Boulevard B2      Boulevard B3

**Session** Concurrent Session 6A      Concurrent Session 6B      Concurrent Session 6C

<b>13:30</b>		Advancing Erosion Control with Virgin HDPE Mesh for Superior Durability in Hybrid Engineering Systems <b>Sanjay Charati</b>	Investigating the dual role of geocells in slope stabilization: Reinforcement and fascia <b>Sureka Sekar, Arindam Dey</b>	Research on the Control Effect of Water Migration in Fine-grained Soil Subgrade Driven by the Matric Potential of Wicking geotextile <b>Pengju Tang</b>
<b>13:50</b>		Durability of Geotextile Material Exposed to 6-year UV Exposure <b>Yun Mei Lim</b>	Evaluation of extent of earthquake damage to geogrid reinforced soil walls by the settlement of backfill surface <b>Jiro Kuwano</b>	Drainage performance of slope installed with wicking geotextile in seasonal frozen areas <b>Chuang Lin</b>
<b>14:10</b>		Assessment of High-Density Polyethylene Geomembrane Durability Immersed in Mine Tailings Solutions at Elevated Temperatures <b>Siamak Paulson</b>	Liquefaction response of geogrid-reinforced sands <b>Saikumar Allam</b>	Filtration Performance of a Woven Geotextile Based on Permeameter Tests Performed within a Landfill Site. <b>Fernando Portelinha</b>
<b>14:30</b>		Performance Enhancement of Bituminous Geomembranes: Technical Innovations and Solutions <b>Mukula Hettihewage</b>	Seismic response of wrapped-face geosynthetic reinforced soil (GRS) wall comprising marginal backfill material <b>Mihretab Madamo, Omkar Tiwari, Arindam Dey</b>	Design and application of special purpose membrane in canal embankments with clayey soils <b>Vivek Kapadia</b>

**15:00** Afternoon Tea

**Room** Boulevard Auditorium      Boulevard B1      Boulevard B2      Boulevard B3

**Session** Speed Consulting      Concurrent Session 7A      Concurrent Session 7B      Concurrent Session 7C

<b>15:30</b>		Using Geotextile Filters in Dam Embankment Construction <b>Jonathan Shamrock</b>	Evaluation of the mechanical properties of HDPE geomembranes exposed for 15 years <b>Sergio Luiz Da Costa Junior</b>	Field scale test of base Course reinforcement method using geosynthetics <b>Kenichi Sato</b>
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15:50	Speed Consulting Transportation theme (Roads & Railways) Hosted by <b>Amir Shahkolahi</b>	Investigation of installed unconfined Geosynthetic Clay Liner on a piggyback liner <b>Md Abdur Rouf</b>	Environmental and economic analysis of the use of high-strength geomembranes in MSW landfills: Innovative perspective <b>Elvira Carreras Torres</b>	Study on Geopolymer-Modified Pourable Waste Slurry as Subgrade Material in Geocells <b>Xiaohui Sun</b>
16:10		Multilayered geosynthetic composite application in landfill cappings - Cava De' Tirreni case study <b>Matteo Lelli</b>	Seepage model test on restored embankment using geocell reinforcement technique <b>Shintaro Miyamoto</b>	Numerical investigation on the influence of the geogrid length on the load transfer mechanism in stabilized granular layer. <b>Nagashruthi Shivakumar</b>
16:30		Incomat for Coastal Pipeline Protection <b>Samir Kremer Sehnem</b>	Innovative geotextiles with moisture management for resilient roadway <b>Stephen It Seen Teh</b>	Geosynthetics Application for Dam Reservoir Capacity Rebuilding – A Pilot Project <b>Dola Roychowdhury</b>
16:50		Development and performance testing of biodegradable vertical drain modified with PLA/PBAT composite <b>Zhen Zhang</b>	Consolidation analysis and optimisation of On-site spacing of PVD in Soft Clay deposit. <b>Vivek Kapadia</b>	Unveiling the Role of Enhanced Lateral Drainage in Moisture-Sensitive Subgrade Stabilization: Insights, a Decade on from the Montana Project. <b>Gary Matthews, Barry Kok</b>
17:10				Effectiveness of Geogrid Reinforced for Paved and Unpaved Pavement Sections <b>Ratnakar Mahajan, Matteo Lelli</b>
17:30				
Room	The Star Brisbane (Offsite)			
18:30				
22:30	GeoAsia8 Conference Dinner			

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**Friday, 13 June 2025**

**Room** **Boulevard Auditorium**

**08:30** **Keynote Session**

**08:30** Geosynthetics applications with sustainable design and construction  
**Chew Soon Hoe**

**09:15** Use of cellular confinement to improve the performance of roads and railways on soft subgrades  
**Jie Han**

**10:00** **Morning Tea**

**Room** **Boulevard Auditorium** **Boulevard B1** **Boulevard B2** **Boulevard B3**

**Session** **Un-conference** **Concurrent Session** **Concurrent Session** **Concurrent Session**

<b>10:30</b>	Un-conference Slopes and Walls	Effectiveness of a Geocomposite-PVD system in preventing subgrade instability and fluidisation under cyclic loading <b>Andy Warwick</b>	Sustainable design of civil engineering works - opportunity and threat for geosynthetics <b>Tom Sangster</b>	Welding Parameters. The Importance and Impact they Have <b>Clinton Van Zyl</b>
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<b>10:50</b>	Enhanced Rail Track Performance Using Recycled Rubber and Mining Waste <b>Yujie Qi</b>	Geosynthetic - a sustainable construction material <b>Gary Ng</b>	Enhancing Polyethylene Geomembrane Performance: Tackling Weld Quality, Installation Challenges, and Durability Risks <b>Eduardo Carreras Torres</b>
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<b>11:10</b>	Experimental study on dynamic properties of geocell reinforced crushed stone composites <b>Zhijie Wang</b>	Study on Optimization of Seaming Strength of Woven Geotextiles by Improving Seaming Condition and Process <b>Han-Yong Jeon</b>	Performances of PET-based geogrids installed in high-alkalinity environment <b>Matteo Lelli</b>
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<b>11:30</b>	Long-term performance of the embedded mechanically stabilized earth abutment in Anhui – A case study <b>Binli Zuo</b>	Beneficial Use of Dredged Marine Sediments as Backfill In Reinforced Soil Systems <b>Vandana Sreedharan</b>	An assessment of drainage geocomposites for today's construction projects <b>Michael Bates, Tricao Vo</b>
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<b>11:50</b>	Optimizing Rail Track Performance Through the Use of Recycled Rubber Energy-Absorbing Grids <b>Suwan Udana De Silva Hettiyahandi</b>	Climate resistance of GCL-reinforced sealing systems based on lysimeter testing <b>Henning Ehrenberg</b>	Inverted barriers in tailings storage facilities: lessons learnt <b>Edoardo Zannoni</b>
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<b>12:10</b>	GEOGRID in railways – a deemed-to-comply or still a deviation? <b>Darrel Cheong</b>	Advancing environmental resilience with innovative nature-based geo-construction solutions <b>Intan Nor Zuliana Baharuddin</b>	
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**12:30** **Lunch Break**

**Room** **Boulevard Auditorium** **Boulevard B1** **Boulevard B2** **Boulevard B3**

**Session** **Barriers** **Hydraulics** **Stabilisation** **Reinforcement**

<b>13:30</b>	Mitigating Moisture Damage in Pavements and Embankments  <ul style="list-style-type: none"> <li>•Geosynthetics for filtration and subsoil and lateral drainage: Minimize the migration of fine particles into the pavement material; Minimize the accumulation of moisture within the subbase, base and subgrade materials</li> <li>•Geosynthetic asphalt interlayers as moisture barriers</li> </ul>	TCH Session	TCS Session	TCR Session
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**Room** **Boulevard Auditorium**

**15:00** **15:30** Conference Closing Ceremony