

**Venue: Assembleia 1**

**Date: Oct 07, 2025. | Time: 2pm to 4pm**

**Topics: Foundations and Deep Excavation**

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**Thematic Lecture:**

Piled Raft Foundation and Soil Structure Interaction

*Sangseom Jeong, Jinwoo Lee, Dohyun Kim & Jongjeon Park*

**Contributed Presentations:**

Performance Evaluation of Combined Piled Raft Foundation Subjected to Combined V-H Loading

*Aman Garg, Vishwas A. Sawant & Siddharth Mehndiratta*

Numerical Investigation of the Cushion-Dependent Behaviour of Disconnected Piled Raft System

*S. Raut, P. Halder, B. Manna & J. T. Shahu*

Centrifuge Model Test on Vertical Bearing Characteristics of Soil-Cement Composite Pile

*Shohei Koga, Koji Watanabe, Tetsuro Naito & Nobuaki Tsuchiya*

Model Load Tests on Lateral Resistance of Soil-Cement Composite Pile

*Tetsuro Naito, Shohei Koga, Nobuaki Tsuchiya & Koji Watanabe*

Designing against failure: Early lessons on geotechnical and construction pitfalls

*B. Govind Raj & Madan Kumar Annam*

Effect of Anisotropy on the Torsional Response of Pile Foundations

*Bipin Kumar Gupta*

Study on Loading Rate Effect of Geomaterials for Vertical Bearing Characteristics Evaluation of Pile

*Kiyoka Kono, Koji Watanabe, Shihchun Lin & Shuichi Kamei*

Static and Rapid Load Tests with Various Interpretation Methods on a Steel Pipe Pile in Sandy Ground

*Ram Krishna Mandal, Shuichi Kamei, Isaku Yamamoto & Tatsunori Matsumoto*

Finite Element Modeling of Laterally and Cyclically Loaded Monopiles on Sloping Terrain

*Jegadeesh kumar Thangavel & Deendayal Rathod*

Seismic Lateral Capacity Analysis of Skirted Ring Foundation in Layered Soil

*Kaustav Chatterjee, Puran, Pratik Goel & Sambit Pani*

Excavation-induced deformations in adjacent pile foundations

*R. B. Rao & S. S. Kandolkar*

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**Venue: Assembleia 2**

**Date: Oct 07, 2025. | Time: 2pm to 4pm**

**Topics: Earthquake and Soil Dynamics**

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**Thematic Lecture:**

Towards a Particle Based Approach for Simplified Liquefaction Susceptibility Assessment

*S. Banerjee, R.K. Kandasami, M.U. Rehman and A. Srivastava*

**Contributed Presentations:**

Comprehensive Multi-method Assessment of Liquefaction Potential Along the Levee

*Mario Basic, Lovorka Libric & Meho Sasa Kovacevic*

Cyclic Response of Soft Cohesive Soil

*Shrweta Dutta & Ajanta Sachan*

Undrained Cyclic Response of Indus Basin Sand in Leh, Ladakh

*Abid Ahmad Sofi & Majid Hussain*

Evaluation of Dynamic Parameters of Tropical Peat

*Ashim Kanti Dey, Rajat Debnath & Soumitra Kumar Kundu*

Effect of Seepage and Suction on Liquefaction Resistance for Unsaturated Soil

*Tomoyoshi Nishimura & Masafumi Matsumoto*

Analytical Framework for Estimating Excess Pore Pressure Redistribution in Liquefiable Layers

*Sumeet Kumar Sinha, Katerina Ziotopoulou & Bruce Lloyd Cutter*

Comparative Study of Liquefaction Potential of Core areas of Kathmandu Valley using Microtremor Measurement

*Sanjeeb Pudasaini, Khemraj Pokharel, & Ram Chandra Tiwari*

Effect of Nonlinear Soil Behavior on the Seismic Performance of a Zoned Embankment Dam

*A. Kumar & B.K. Maheshwari*

Monitoring Ground Vibration during Blast Induced Demolition of Coal Tower & Chimneys

*Alina Anil, Tarun Naskar, A Boominathan, Anil Joseph & Dhanya J S*

Small-Strain Dynamic Behavior of a Coalmine Overburden (OB) Waste

*Koushik Das, Debjit Bhowmik, Bappaditya Manna & Ramanathan Ayothiraman*

Influence of Heterogeneous Wave Velocities on the Seismic Passive Resistance of Dry Granular Soils

*G Gowtham & Jagdish Prasad Sahoo*

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**Venue: Assembleia 3**

**Date: Oct 07, 2025. | Time: 2pm to 4pm**

**Topics: Practice, Risk and Education**

**Thematic Lecture:**

Integrating Geophysics into Geotechnical Workflows: Principles, Practices, and Pitfalls  
*Sanjay Rana*

**Contributed Presentations**

Impact of Probability Density Function on TLBO Converged Shear Wave Velocity Profile in MASW Test

*Prabhakar Vishwakarma*

Influence of Gradation on Failure Mode of Saturated Sand at Particle Scale

*Mohammed Elnur & Khalid Alshibli*

Hydraulic Conductivities of Unsaturated Bauxite: Directly Measured and SWCC-based

*Hailong Wang, Jaylord Tan Tian & Junichi Koseki*

Liquefaction Analysis of Pond Ash using Dynamic Cone Penetration Tests

*Sujay Vipulbhai Teli & Ajanta Sachan*

Stochastic Evaluation of Liquefaction Severity via Second Order Reliability Method

*Saikat Kuili, Akash Kumar Bharti & Ravi S. Jakka*

A Reliability-based Framework for Evaluating Seismic Liquefaction

*Saidu Konneh & Ganesh W. Rathod*

Stress on the Cohesionless Finer Fraction and Its Influence on Internal Erosion

*Ricardo Moffat & Diego Soto*

Effect of Relative Compaction on Stress-Strain Response of Low Plasticity Soil

*Shrweta Dutta, Areen Khan & Ajanta Sachan*

Model Scale Studies on Time-Lapse ERT for Monitoring Seepage Flow

*Vaishnavi Bherde & Umashankar Balunaini*

New-Gen of Surface Wave Method for Enhancing Site Characterization and Infrastructure Inspection

*Chih-Ping Lin, Tsai-Jung Wu, Quoc Kinh Tran, Ernian Pan & Yin-Ming Po*

Estimation of OCR and Coefficient of Consolidation for Typical Kolkata Deposit using DMT-Dissipation

*Kaustav Das, Shiladitya Mandal, Harika Anupoju, Kaushik Bandyopadhyay & Goudappa Ramanagouda Dodagoudar*

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**Venue: South 1**

**Date: Oct 07, 2025. | Time: 2pm to 4pm**

**Topics: Geosynthetic Engineering**

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**Thematic Lecture:**

Geosynthetics Tensile Behaviour after Exposure to Non-conventional Fill Materials

*Castorina Silva Vieira & Paulo M. Pereira*

**Contributed Presentations**

Micromechanical Insights into Frictional Behavior at Non-dilative Geomaterial Interfaces

*Lalit Kandpal, Prashanth Vangla & Satoshi Matsumura*

Effect of Metal Ions on the Thermo-oxidation Resistance of High-density Polyethylene Geotextiles

*José Ricardo Carneiro & Maria Lurdes Lopes*

Evaluation of Mechanical Degradation to Glasgrid under Cyclic Loading During Installation in Roads

*Nitish Kumar & Ramesh Kannan Kandasami*

Performance of Double Twisted Mesh in Acidic Environment

*Samudera Dandy Aribowo, Anisur Rahman, Aningtyas Safitri, Marco Vicari & Ratnakar Ramesh Mahajan*

Micro & Nano X-ray CT Visualization of a GCL Subjected to 1D Freeze-thaw Cyclic Effects

*Nana Yamaguchi, Toshifumi Mukunoki & Toru Yoshinaga*

Comparison of ASD- and LRFD- based designs of Reinforced Soil Walls

*D.S.K. Mana & S.D. Vyas*

Dewatering of Low-solid-content Wastes using Geotextile Tubes: Insights from Laboratory Testing

*George Segre & Shobha K Bhatia*

Achieving SDGS Through Geotextile Tube Dewatering Systems in South Africa

*Nikhil Budhai*

Evaluation of MIF/LCR through Laboratory Test for Polypropylene and Polyester Biaxial Geogrid

*Saurabh Vyas & Shivani Mistry*

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Evaluation of the Performance of Geogrid Strip RSW Subjected to Rainfall: Centrifuge Study

*Viswateja V Turlapati & B V S Viswanadham*

State-of-the-art review of the creep behaviour of geotextiles

*J. Y. Kolekar, S. M. Dasaka, S. B. Kharmale & Y. A. Kolekar*

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**Venue: South 2**

**Date: Oct 07, 2025. | Time: 2pm to 4pm**

**Topics: Slope Stability and Landslides**

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### Contributed Presentations

Calibration of Open-Pit Mine Slope Models Through Forensic Investigation of Actual Failures

*Andre-Jean De Guzman Pineda, John Michael Intal Tanap, Kirsten Julia Doble Cruz, Marielle Gwen Garcia Martinez, Desz Justinne Nosa Ocampo, Joselito Suñga Tañagras, Gian Paulo Dumigpi Reyes, Patrick Adrian Yap Selda, Ramon Diaz Quebral & Roy Anthony Capisonda Luna*

Design and Construction of Hybrid Reinforced Soil Slopes for Railways

*Ratnakar Ramesh Mahajan, S Reginald, Rudra Budhbhatti, N. K. Panda & Gianluca Spadaro*

Volcanic Ash Clay and Risk of Catastrophic Landslide

*Mizuki Kunisawa, Tomohiro Higashi & Tetsuo Tobita*

A Comparative Study on Machine Learning Models to Predict Landslide Susceptibility

*Tulasi Ram Bhattarai & Netra Prakash Bhandary*

Comparative Assessment of Antecedent Rainfall Threshold for Roadside Landslide Prediction

*Suresh Neupane & Netra Prakash Bhandary*

Effect of Spatial Variability of Permeability in Rainfall-induced Landslides using Random FEM

*Abhijith Ajith & Rakesh J Pillai*

Numerical Analysis of Piles Placed on Sandy Sloping Ground Considering Hardening Soil Model

*Yamini Jala, Vishwas A. Sawant & Anumita Mishra*

A Study on the Wind Erosion Mitigation of Flyash in Disposal Sites using Surface Geopolymerization

*Hari Krishna Padavala & Abhilash Pampana*

Analysis of Erosion Control Methods and Soil Loss Estimation using the Rusle Model

*Ratnakar Ramesh Mahajan, Saurabh Rajpoot, Gianluca Spadaro & Saurya Dash*

Soil-water Index (SWI) Thresholds for Territorial Landslide Early Warning System (TE-LEWS) in India

*Srikrishnan Siva Subramanian, Sudhanshu Dixit, Anamika Sekar, Piyush Srivastava, Sumit Sen, Tapas Ranjan Martha & Tatsuya Ishikawa*

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Numerical Analysis of Slopes Stabilized with Helical Soil Nails

*Gaddam Harshitha & Renjitha Mary Varghese*

Rheological Properties and Flow Behavior of Mine Tailings and Fly Ash: Lessons from Failures

*N. Fatema, S. K. Bhatia & A.M. Palomino*

Effect of stress anisotropy on shear strength parameters and infinite slope stability: A numerical Approach

*Revathy Manohar & Sireesh Saride*

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**Venue: West 1**

**Date: Oct 07, 2025. | Time: 2pm to 4pm**

**Topics: Ground Improvement and Stabilisation**

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**Contributed Presentations:**

Consolidation Assessment of a Layered Subsurface Improved with prefabricated vertical drains and Embankment Preloading  
*Samrat Ghose & Arindam Dey*

Geopolymer Soil Column-supported Embankments: A study of Soft ground improvement through Experimental and Numerical Approaches  
*Sanjoli Gupta & Suresh Kumar*

Enhancing the Geotechnical Properties of Micaceous Sand using Xanthan Gum Biopolymer: A Sustainable Alternative to Conventional Stabilisers  
*Anjali S & Seethalakshmi P*

Compressibility and Shrinkage Characteristics of Clayey Soil Amended with Sugarcane Bagasse Biochar  
*Mohammad Nuruddin & Arif Ali Baig Moghal*

Compressibility Behaviour of Marine Clays Treated with CCR Measured using CRS Tests  
*Charity Marbaniang & Ashish Juneja*

Stabilization of Clayey Soil with GGBS-based Hybrid Alkali-activated Cement  
*Sanobar Arafat & Monowar Hussain*

Multiscale Evaluation of SCM-Enhanced Montmorillonitic Clay  
*Ankit Kumawat, Sourabh Choudhary, Ritik Kumar & Lalit Borana*

Experimental Evaluation of Electrodeposits in Silica Sand under varying humidity-controlled environment  
*Vandana Brar, Deepanshu Shirole & Sovik Das*

Influence of Molding Water Content on Strength Development of Marine Clay-Binder System  
*Rejin Raj P & Vandana Sreedharan*

Strain Localization in Lime Treated Expansive Soil under Compression Loading using Digital Image Correlation  
*Brijesh Kumar Agarwal & Ajanta Sachan*

Role of Natural Moisture in the Geo-polymerization Process for Marine Clay Improvement  
*Himanshu Yadav, Satyanarayana Murty Dasaka & P. Hari Prasad Reddy*

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Curing Stress Effects on Stabilization of Low and High Plastic Clays in Inactive and Active Zone

*Balaji Sai Kumar Bandaru, Ramesh Kannan Kandasami & R G Robinson*

Effect of Morphological Characteristics on the Shear Strength Behavior of Sand

*Hansa Devi, Kunjari Mog, & Anuj Kumar*

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**Venue: West 2**

**Date: Oct 07, 2025. | Time: 2pm to 4pm**

**Topics: Rock Mechanics and Tunnelling Engineering**

**Thematic Lecture:**

Probabilistic Analysis of a Wellbore in Rocks

*Priti Maheshwari & Anil Kumar Barik*

**Contributed Presentations**

Preserving Heritage: Geologic and Geotechnical Strategies for Restoring a Historic Tunnel

*Francis Jenner Bernales, Kate Trishia Papina, Vanessa Erestain, Marceliano Cruz & Roy Anthony Luna*

Back Analysis of Volume Loss From Tunnelling in Chennai Formations

*Parimala Ragunathan, Buddha Varma Nadampalli, N Kumar Pitchumani & G V R Raju*

Strain Responses of an Existing Tunnel to Instability of New Tunnel Support

*Jiaqi Lin, Jianhong Zhang, Aixia Wang & Xiangsheng Chen*

3D Analysis of TBM Tunnelling Effects in Layered Soils using MIDAS GTS-NX

*Jyoti Agarwal, Gaurav Garg, Heman Manchanda, Chaitanya Gandhi & Gopal Passi*

Ground Subsidence of Circular Tunnels under Static and Seismic Loads

*Shilpa Mary Sam, Shazin Muhammed & Seethalakshmi P*

Appraisal of Face Stability in Soft Ground Conventional Tunneling

*Animesh Sharma, Ashish Juneja & Raghvendra Pratap Singh*

Design and Construction of Low Overburden High-Speed rail Tunnel in India

*Uday Prasad Singh, Krishan Singh & Animesh Sharma*

Effects of Tunneling on the Ground Surface Movement

*K.M. Dharme, K.L.V Reddy, N. Verma & D.S. Murty*

Impact of Nearby Excavation on Stability of Existing Urban Tunnel

*N. Verma, K. T. Krishnanunni, M. J. John, B. V. S. Viswanadham & D. S. Murty*

Performance of tunnel boring machine in basaltic deccan trap rock – A Case Study

*G. V. Rao, Uday Kulkarni & Renu Kulkarni*

Stability Assessment of Water Curtain Tunnel in Very Poor Rockmass

*Anjali J & Altaf Usmani*

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**Venue: Day-in Day-out**

**Date: Oct 07, 2025. | Time: 2pm to 4pm**

**Topics: Cold, Coastal and Environmental Geotechnical Engineering**

**Thematic Lecture:**

The Geotechnical Love Affair with Landfills

*G. V. Ramana*

**Contributed Presentations:**

Analysis of desiccation cracking in high plasticity compacted clay using DIA and DIC

*Soumik Majumder, Brijesh Kumar Agarwal & Ajanta Sachan*

Swelling and Infiltration Properties of Bentonite with Different Cations under Various Solutions

*Daichi Ito, Nanase Yamada, Hailong Wang & Hideo Komine*

Influence of Cd<sup>2+</sup> and Cr<sup>6+</sup> on compressibility of crosslinked biopolymer treated soil

*R.M. Rasheed, S.S. Fathima, S.A. Akhila, C. Panchami, S. Roshitha, M. Nuruddin & A.A.B. Moghal*

A Heuristic Approach to Optimizing Shallow Geothermal Energy Storage in Unsaturated Clay Formations

*Aditya Deshmukh, Alireza Fakhrabadi, Puneet Bhaskar, Anand J Puppala & Xinabo Yu*

State-of-the-art Detection of Pharmaceutical Contamination in Soil

*Yi En Chng, Thanusan Ranjan, Sean Shao Zuen Lau, Jun Cheng Kho & Mavinakere Eshwaraiah Raghunandan*

Red mud effects on shrinkage potential of bentonite clay

*J. Shaikh, G. Sridevi, S. Kumar & P. Ahir*

Environmental risk assessment of tailing dams in Iran

*Pedram Nasiri, Abbas Soroush, Seyed Mohammad Fattahi & Mohammad Mehdi Salarirad*

Estimation of Methane Emission from Municipal Solid Waste Dumpsites using Modified FOD Model

*Manish Sharma & Mohit Somani*

A novel nano-based approach to mitigate alkali-induced swelling in red soil

*T Aravind Kumar, P Hari Prasada Reddy & Sai Kumar Vindula*

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Sustainable Solutions for utilizing the Abandoned Oil and Gas Wells to extract geothermal energy-A review

*Faakhirah Rashid & Devendra Narain Singh*

Safe Utilization of Wastewater Sludge: From Lab Characterization to Field Use

D.R. Pathak, B. Acharya, B.B. Chand & L. Pathak

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