

GEOPRACTICES 2024	
Program Schedule	
Day 1- Preconference Workshop	
Auditorium-2	
October 3rd	International Workshop on Advances in Roadway and Railway Applications Using Geosynthetics
Day 2- Conference on GeoPractices Towards Sustainable Infrastructure	
October 4th	GeoPractices 2024 - Conference Day 1, Auditorium - 1
08:30 - 09:00	Registration
09:00 - 09:45	Inaugural Function
	Keynote Sessions Auditorium - 1
09:50 - 10:35	Keynote Presentation by Prof. T. G. Sitharam Title: <i>Geopractices Towards Sustainable Infrastructure: Case Study of Geotechnical Aspects of Chenab Rail Bridge</i>
10:35 - 11:20	Keynote Presentation by Prof. Jorge G. Zornberg Title: <i>Sustainable Practices for Roadway Infrastructure using Geosynthetics</i>
11:20 - 11:40	High Tea [Auditorium 1 Foyer]
11:40 - 12:25	Keynote Presentation by Prof. Erol Tutumluer Title: <i>Quarry By-products and their Sustainable Pavement Applications</i>
12:25 - 13:10	Keynote Presentation by Prof. G. L. Sivakumar Babu Title: <i>Improved Methods for Filtration, Drainage, and Structural Assessments with and without Geocomposites for Subsurface Drainage of Pavements</i>
13:10 - 13:19	Corporate presentation by STRATA
13:19 - 13:28	Corporate presentation by Greenko
13:28 - 14:15	Lunch Break [4 th Floor Guest House]
14:15 - 15:45	14:15 - 14:45: Invited talk by Prof. N. K. Samadhiya Title: <i>3D Finite Element Analysis of Coupled Stress-Flow in Jointed Rock Masses</i>
	14:45 - 15:15: Invited talk by Prof. G. Madhavi Latha Title: <i>The Novel Geocell Anchor Cage System</i>
	15:15 - 15:45: Invited talk by Prof. R. Ayothiraman Title: <i>Challenges of Metro Tunnel Construction in Urban Cities</i>
15:45 - 15:52	Corporate presentation by Vishwa Samudra
15:52 - 15:59	Corporate presentation by Megha Engineering & Infrastructure Ltd.
15:59 - 16:06	Corporate presentation by TechFab India
16:06 - 16:21	Tea Break [Auditorium 1 Foyer]
16:21 - 17:51	16:21 - 16:51: Invited talk by Prof. A. Murali Krishna Title: <i>Prefabricated Vertical Drains (PVDs) with Preloading for improving the soft soils: A case study of Railway embankment restoration</i>
	16:51 - 17:21: Invited talk by Prof. K. Muthukkumaran Title: <i>Mitigation of Earthquake Induced Liquefaction Risk by Induced Partial Saturation (IPS) – A Novel Ground Improvement Concept</i>
	17:21 - 17:51: Invited talk by Prof. D. Neelima Satyam Title: <i>Integrated Instrumentation and Hydro-geotechnical Modeling for Landslide Risk Assessment</i>
17:51 - 18:15	Technical Session: Sustainable Ground Improvement Techniques Auditorium - 1
	17:51 - 17:59: Control of Reflection Cracks and Potholes in Roads Adopting Jute Geotextile - Few Case Studies by Pradip Choudhury
	17:59 - 18:07: Parametric Study using PLAXIS 3D on a Piled Raft Foundation having Batter Piles when Subjected to Lateral Load by Reshma Illuri and Dr Vinubhai R Patel
	18:07 - 18:15: Water Footprint Analysis for Geotechnical Project: A Case Study Approach for Piling Works by Vinothkumar Manivannan
	Technical Session: Sustainable Transportation Geotechniques Seminar Hall - 2
	17:51 - 17:59: Influence of Spacing of Drains on Rate of Settlement Reduction in Soft Soils by Ruchi Pankaj Shrivastava and Arvind Shroff
17:59 - 18:07: Enhancing Disaster Preparedness in Mountainous Regions: A Review of IoT and Machine Learning Techniques by Varun Menon O and Sreevalsa Kolathayar	

	18:07 - 18:15: <i>Experimental Evaluation of Coal Mine Waste as Non-Conventional Backfill for Reinforced Soil Structures</i> by Padmavathi M, Rajesh S
	Technical Session: Sustainable Ground Improvement Techniques Seminar Hall - 1
	17:51 - 17:59: <i>A Study on Slope Stability of an Earthen Dam using Design Charts for End of Construction as well as Steady State Seepage Conditions</i> by Satyajit Roy
	17:59 - 18:07: <i>Comparative Performance and Cost Analysis of Cementitious-Treated and Geogrid-Reinforced Flexible Pavements</i> by Kasi Reddy Rishitha Reddy and Sarat Chandra Malluru
	18:07 - 18:15: <i>Influence of Footing Size and Shape on Undrained Bearing Pressure of Normally Consolidated Ground</i> by Shiva Bhushan J.Y.V., Narasimha Reddy G. V. and Madhav Madhira
19:00 – 20:30	Cultural Program [Auditorium 1]
20:30 - 22:00	Conference Dinner [Guest House]
Day 3- Conference on GeoPractices Towards Sustainable Infrastructure	
October 5th	GeoPractices 2024-Conference Day 2 & 240th EC Meeting from 10AM
09:00 – 09:45	Madhav Lecture by Dr. Jaykumar Shukla Title: <i>Learning from Failures: A Key to Sustainable Infrastructure Development</i>
09:45 – 10:45	09:45 - 10:15: Invited talk by Prof. B. K. Maheshwari Title: <i>Mitigation of Reliquefaction for the Pavement Stabilization using Prefabricated Vertical Drains</i>
	10:15 - 10:45: Invited talk by Prof. Dasaka S Murthy Title: <i>Construction of Field-scale Retaining Wall at IIT Bombay to Assess the Efficacy of EPS Geofom to Reduce the Lateral Earth Pressures - Challenges and Way Forward</i>
10:45 – 10:51	Corporate presentation by GeoTech Industries Pvt. Ltd.
10:51 – 11:06	Tea Break [Auditorium 1 Foyer]
11:06 – 12:36	11:06 - 11:36: Invited talk by Prof. J.S. Vinod Title: <i>Instability Behaviour of Scrap Tyre Soil Mixtures</i>
	11:36 - 12:06: Invited talk by Prof. Ashish Juneja Title: <i>Case Studies on Rockfall Protection Measures</i>
	12:06 - 12:36: Invited talk by Prof. B. Umashankar Title: <i>Utilization of Geopolymerized Mine Overburden Soil for Sustainable Pavement Base Layer Applications</i>
12:36 – 12:42	Corporate presentation by AIMIL Ltd.
12:42 – 12:48	Corporate presentation by Complete Instrumentation Solutions
12:48 – 13:40	Lunch Break [4 th Floor Guest House]
	Technical Session: Sustainable Ground Improvement Techniques Seminar Hall - 1
13:40 – 14:44	13:40 - 13:48: <i>Improving Equivalent Top Load Curve obtained using Current Methods from Bi-directional Pile Load Test Data after comparing with Top Load Test results</i> by Hadiya Hardik, Dasaka Satyanarayana Murty and Venkateshwara Reddy K L
	13:48 - 13:56: <i>Role of Clay Content in Carbonate Precipitation Induced by Microbial Activities</i> by Vibha S and Raghuvver P Rao
	13:56 - 14:04: <i>Enhancing Expansive Clay Stabilization through Steel Slag-Based Carbon Sequestration</i> by Ammavajjala Sesha Sai Raghuram and Anasua Guharay
	14:04 - 14:12: <i>Effect of Sloping Ground on Lateral Load Capacity of Single Pile in Sandy Soil</i> by Yamini Jala, Vishwas Sawant and Anumita Mishra
	14:12 - 14:20: <i>Effectiveness of Expanded Polystyrene Geofom in Highway Embankments</i> by Abhishek Aryan and Vinil Kumar Gade
	14:20 - 14:28: <i>Mitigation Technique Against Earthquake-Induced Damages by using Scrap Tire Chips in Shallow Foundations</i> by Akarsh P K, Sumeet Shivasharan, Ujwal B, Udaykiran L V and Babloo Chaudhary
	14:28 - 14:36: <i>Xanthan Gum Biopolymer treatment on the strength Improvement of Expansive Soil</i> by Neha Raj
	14:36 - 14:44: <i>Shake Table Study on the Effects of Coir Geotextile Reinforcement in Sand</i> by Vaishnavi Dasari, Kalyan Kumar Gonavaram, Heeralal M, Sai Srivatsava Reddy, P Venkata Koteswara Rao and Tarini Jahnavi
	14:44 - 14:52: <i>A Numerical Study on Mitigating Liquefaction Potential through Stone Column</i> by Uday Bhanu Chakraborty

	Technical Session: Sustainable Transportation Geotechniques Seminar Hall - 2
	13:40 - 13:48: <i>Full-Scale Field Performance of Steel Wire Mesh Reinforced-Unpaved Road</i> by Abhilasha Senapati, Rohan Deshmukh and Dr. Satyajit Patel
	13:48 - 13:56: <i>Synergistic Techniques for Landmass Movement Detection: A Review Towards Sustainable Slope Stability Monitoring</i> by Priyajit Kundu, Sreevalsa Kolathayar and Pruthviraj Umesh
	13:56 - 14:04: <i>Life Cycle Assessment of Sandy Soil Stabilized with Cement and Silica Rich Additive as Base Layer in Flexible Pavements</i> by Muli Nagendra Babu Reddy and Umashankar Balunaini
	14:04 - 14:12: <i>Estimation of Basic Geotechnical Properties of Two Hyderabad Soils using Lab Electrical Resistivity Method</i> by Thriveni Kommula, Poojitha Goundla, Raghava Bhamidipati and Abhinav Gopi
	14:12 - 14:20: <i>Assessing Shaft Excavation in Underground Metro Construction: A Comparative Study using Plaxis 2D and 3D</i> by Mohammed Najamuddin, Sowmiyaa V S, Suresh Chikati and Doraswamy Raju G
	14:20 - 14:28: <i>Geotechnical Investigation of Distressed Pavement – A Case Study of Road Project in Gujarat, India</i> by Venkateshwara Reddy K L, Satyanarayana Murty Dasaka and Dharamveer Singh
	14:28 - 14:36: <i>Evaluating the influence of Geocomposites Embedment Location on the Hydraulic Capabilities of Granular Subbase Layers</i> by Abishek R R and Sireesh Saride
	14:36 - 14:44: <i>Investigation of Factors Affecting Expanded Polystyrene (EPS) as Construction Material through Laboratory and Numerical Study</i> by Dinesh Bishnoi and S M Dasaka
	14:44 - 14:52: <i>Optimal Blends of Artificial and Natural Aggregates for Enhanced Pavement Performance</i> by Nagendra Mondem and Umashankar Balunaini
14:45 – 15:05	Tea Break [Auditorium 1 Foyer]
	Technical Session: Sustainable Ground Improvement Techniques Seminar Hall - 1
	15:05 - 15:13: <i>Physicochemical Characterization of Incinerated MSW Ash for Liner Applications</i> by S Kaveri and KVNS Raviteja
	15:13 - 15:21: <i>Effect of Anisotropy on the Factor of Safety of Geosynthetic Reinforced Slopes</i> by Revathy Manohar and Sireesh Saride
	15:21 - 15:29: <i>Iron Ore Mine Slope Stability using Finite Element Analysis</i> by Bhanuchitra Maheswaram
	15:29 - 15:37: <i>Characterization of Low Plasticity Soil Stabilised with Lime and Cement using DCPT and DSCPT</i> by Prabodh Kumar Mahopatra, Dr. Sidhu Ramulu Duddu and Dr. Hariprasad chennarapu
	15:37 - 15:45: <i>Impact of Aggregate Gradation Stabilized with Triaxial Geogrid and Cement on Deformation Modulus and Modulus Improvement Factors</i> by vamsi kommanamanchi, Dr. Sidhu Ramulu Duddu and Dr. Hariprasad chennarapu
15:05 – 15:45	Technical Session: Sustainable Ground Improvement Techniques Seminar Hall - 2
	15:05 - 15:13: <i>Evaluation of Modulus Improvement Factor for Multilayer Geogrid Reinforced Granular Layers</i> by Shubham Jain, Amit Kumar Ram and Sireesh Saride
	15:13 - 15:21: <i>A Review on Flyash Geopolymer Application in Soil Stabilization as A Sustainable Construction Practice</i> by Dr. Poonam Shekhawat, Gunwant Sharma and Rao Martand Singh
	15:21 - 15:29: <i>Velocity profile of three-stepped gabion model using acoustic doppler velocimeter for coastal protection works</i> by Margi Dave, Ruchita Salvi, Aditya Kumar Singh and Ashish Juneja
	15:29 - 15:37: <i>A study on influence of electrodes on the stabilization efficiency of clay soil through calcium-induced electrokinetic technique</i> by Venkata Koteswara Rao P, sudheer kumar, Priyam N B, Pradyut Anand, Surya Dev Singh
	15:37 - 15:45: <i>Experimental Study of Stabilization with Red Soil by using Admixtures like Rice Husk Ash, Flyash and Marble Dust</i> by Gudavalli Hima Bindu, N.S. Rao and A.S Manikanta
15:45 – 16:00	Valedictory

IGS-FERROCO TERZAGHI ORATION
[October 5th]
Auditorium - 1

17:15 – 18:00	High Tea [Auditorium 1 Foyer]
18:00 – 19:00	IGS-FERROCO Terzaghi Oration by Prof. Giulia M.B. Viggiani Title: <i>Line 1 of Napoli underground: an exercise in sustainable infrastructure</i>
19:30 – 21:30	Dinner [Guest House]