

IGC-2021

GEO-INDIA

GEOTECHNICS FOR INFRASTRUCTURE
DEVELOPMENT AND INNOVATIVE
APPLICATIONS



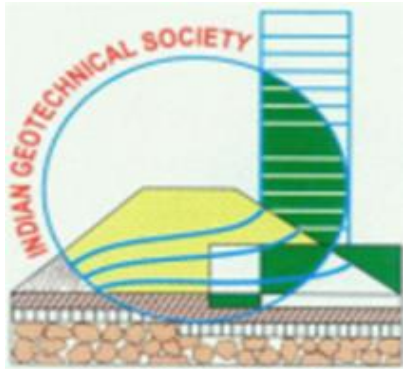
INDIAN GEOTECHNICAL CONFERENCE 2021, December 16 - 18, 2021

Organized by
IGS Trichy Chapter & Department of Civil Engineering,
National Institute of Technology, Tiruchirappalli, Tamil Nadu, India

Online Conference Schedule at a Glance

Time	Programme	Venue	
Day 0 - 15 December 2021, Wednesday			
09:00 - 18:30	Preconference Workshop on "Unsaturated Soil" by TC106 – ISSMGE	A11 Hall	
14:00 - 17:45	Preconference Workshop on "Geotechnical Engineering Practices – Academia & Industry Perspective" – A Panel Discussion	A12 Hall	
Day 1 - 16 December 2021, Thursday			
9.00 - 10.15	Inaugural Ceremony (You Tube Live Stream Link: https://youtu.be/e5oYcXfXYo)	BARN Hall	
10.20 - 11.20	43rd IGS Annual Lecture by Shri. Shahrokh P. Bagli		
11.20 - 11.30	Tea Break		
11:30 - 13.15	Plenary Session 1	BARN Hall	
13:15 - 14:15	Lunch Break		
Parallel Technical Sessions 1			
14:15 - 15:45	Theme	1. Soil behavior and characterization of Geomaterials	EEE Auditorium
	14:15 - 14:35	Theme lecture 01	
	14:35 - 15:45	Paper Presentations	
	Theme	2. Geotechnical, Geological and Geophysical Investigation	A2 Hall
	14:15 - 14:35	Theme lecture 02	
	14:35 - 15:45	Paper Presentations	
	Theme	3. Foundation Engineering	A11 Hall
	14:15 - 14:35	Theme lecture 03	
	14:35 - 15:45	Paper Presentations	
	Theme	4. Ground Improvement Techniques	A12 Hall
	14:15 - 14:35	Theme lecture 04	
	14:35 - 15:45	Paper Presentations	
	Theme	7. Earth Retaining Structures, Dams and Embankments	A13 Hall
	14:15 - 14:35	Theme lecture 05	
14:35 - 15:45	Paper Presentations		
15:45 - 16:00	Tea Break		
16:00 - 16:10	Corporate Presentation 1	BARN Hall	
16:10 - 17:55	Plenary Session 2		
18:00 -20:30	AGM: Meeting Link: https://zoom.us/j/96374630030 Meeting ID: 963 7463 0030		
Day 2 - 17 December 2021, Friday			
09:00 - 11:20	Plenary Session 3	BARN Hall	
11:20 - 11:30	Tea Break		
Parallel Technical Sessions 2			
11:30 - 13:00	Theme	4. Ground Improvement Techniques	EEE Auditorium
	11:30 - 11:50	Theme lecture 06	
	11:50 - 13:00	Paper Presentations	
	Theme	5. Geo-Environmental Engineering	A2 Hall
	11:30 - 11:50	Theme lecture 07	
	11:50 - 13:00	Paper Presentations	
	Theme	6. Soil Dynamics and Earthquake Geotechnical Engineering	A11 Hall
	11:30 - 11:50	Theme lecture 08	
	11:50 - 13:00	Paper Presentations	
	Theme	9. Transportation Geotechnics	A12 Hall
	11:30 - 11:50	Theme lecture 09	
	11:50 - 13:00	Paper Presentations	
	Theme	14. Others	A13 Hall
	11:30 - 11:50	Theme lecture 10	
11:50 - 13:00	Paper Presentations		
13:00 - 14:00	Lunch Break		

14:00 - 15:10	Plenary Session 4		BARN Hall
15:10 - 15:35	Corporate Presentation 2		
15:35 - 15:45	Tea Break		
15:45 - 17:45	Parallel Technical Sessions 3		
	Theme	2. Geotechnical, Geological and Geophysical Investigation	EEE Auditorium
	15:45 - 16:05	Theme lecture 11	
	16:05 - 17:45	Paper Presentations	
	Theme	3. Foundation Engineering	A2 Hall
	15:45 - 16:05	Theme lecture 12	
	16:05 - 17:45	Paper Presentations	
	Theme	11. Computational, Analytical and Numerical Modelling	A11 Hall
	15:45 - 16:05	Theme lecture 13	
	16:05 - 17:45	Paper Presentations	
	Theme	12. Rock Engineering, Tunelling, Deep Excavations and Underground Constructions	A12 Hall
	15:45 - 16:05	Theme lecture 14	
	16:05 - 17:45	Paper Presentations	
	Theme	13. Forensic Geotechnical Engineering and Case Studies	A13 Hall
15:45 - 16:05	Theme lecture 15		
16:05 - 17:45	Paper Presentations		
18:00 - 20:00	Cultural Program (You Tube Live Stream Link: https://youtu.be/h32rqaV_tYs)		BARN Hall
Day 3 - 18 December 2021, Saturday			
09:00 - 10:45	Plenary Session 5		BARN Hall
10:45 - 11:00	Corporate Presentation 3		
11:00 - 11:10	Tea Break		
11:10 - 13:10	Parallel Technical Sessions 4		
	Theme	2. Geotechnical, Geological and Geophysical Investigation	BARN Hall
	11:10 - 11:30	Theme lecture 16	
	11:30 - 13:10	Paper Presentations	
	Theme	3. Foundation Engineering	EEE Auditorium
	11:10 - 11:30	Theme lecture 17	
	11:30 - 13:10	Paper Presentations	
	Theme	5. Geo-Environmental Engineering	A2 Hall
	11:10 - 11:30	Theme lecture 18	
	11:30 - 13:10	Paper Presentations	
	Theme	6. Soil Dynamics and Earthquake Geotechnical Engineering	A11 Hall
	11:10 - 13:10	Paper Presentations	
	11:10 - 13:10	Paper Presentations	
	Theme	8. Slope Stability and Landslides	A12 Hall
11:10 - 11:30	Theme lecture 19		
11:30 - 13:10	Paper Presentations		
Theme	10. Geosynthetics Application	A13 Hall	
11:10 - 11:30	Theme lecture 20		
11:30 - 13:10	Paper Presentations		
13:10 - 14:00	Lunch Break		
14:00 - 16:00	Parallel Technical Sessions 5		
	Theme	4. Ground Improvement Techniques	BARN Hall
	14:00 - 16:00	Paper Presentations	
	Theme	6. Soil Dynamics and Earthquake Geotechnical Engineering	EEE Auditorium
	14:00 - 16:00	Paper Presentations	
	Theme	7. Earth Retaining Structures, Dams and Embankments	A2 Hall
	14:00 - 16:00	Paper Presentations	
	Theme	8. Slope Stability and Landslides	A11 Hall
	14:00 - 16:00	Paper Presentations	
	Theme	11. Computational, Analytical and Numerical Modelling	A12 Hall
14:00 - 16:00	Paper Presentations		
Themes	04 --08	A13 Hall	
14:00 - 16:00	Paper Presentations		
16:00 - 16:10	Tea Break		
16:10 - 17:55	Plenary Session 6		BARN Hall
18:00 - 19:00	Valedictory Session (You Tube Live Stream Link: https://youtu.be/ttdfStBAyIY)		



TRICHY CHAPTER

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EVENT SCHEDULE

Day 0 - December 15, 2021, Wednesday

09:00 - 18.30

Preconference Workshop on “Unsaturated Soil” by TC106 – ISSMGE (Venue: A11 Hall)

14:00 - 17.45

Preconference Workshop on “Geotechnical Engineering Practices – Academia & Industry Perspective” – A Panel Discussion (Venue: A12 Hall)

Day 1 - December 16, 2021, Thursday

Venue: BARN Hall

9.00 - 10.15

Inaugural Ceremony
(You Tube Live Stream Link: <https://youtu.be/e5oYcXfFXYo>)

10.20 - 11.20

Chairman: Prof. N. K. Samadhiya, President, IGS
 Co-Chairman: Prof. J. T Shahu, Honorary Secretary, IGS

43rd IGS Annual Lecture - A Tryst with Geosynthetics by Shri. Shahrokh P. Bagli

11.20 - 11.30

Tea Break

11:30 - 13:15	Venue: BARN Hall Plenary Session 1	
Session Coordinator: Prof. K. Muthukkumaran, NIT Trichy Chairman: Prof. G.L. Sivakumar Babu, IISc Bangalore Co-Chairman: Dr. V. Balakumar, Simplex		
11:30 - 12:05	Keynote Lecture 1	Distributed Sensing and Monitoring of Geotechnical Structures by Prof. Kenichi Soga, University of California, Berkeley, USA (15 Dec, 10:00 p.m. PST, USA-California)
12:05 -12:40	Keynote Lecture 2	Learnings in Underground Metro Design and Construction by Dr. John Endicott, AECOM, Hong Kong (9:35 a.m., Saudi Arabia)
12:40 - 13:15	Keynote Lecture 3	CPT Application in Offshore Soil Investigations – Equipment, Deployment and Data Interpretation by Er. Ravindra Kashinath Ghanekar, ONGC
13:15 - 14:15	Lunch Break	
AN SESSION 14:15 -15:45	Parallel Technical Session 1	
14:15 -15:45	Venue: EEE Auditorium Theme 01 - Soil behaviour and characterization of Geomaterials	
Session Coordinator: Dr. S. Bhuvaneshwari, SRM Chennai Chairman: Prof. V K Stalin, Anna University, Chennai Co-Chairman: Dr. Arindam Dey, IIT Guwahati		
14:15 - 14: 35	Theme lecture 01	Cyclic Behaviour of Geo-materials by Prof. Subhadeep Banerjee, IIT Madras
14:35 - 14:45	TH-01-004	A Study on Undrained Strength of Soil at Limiting Water Content by Arti Sudam Pupalwad
14:45 - 14:55	TH-01-005	Characteristic properties of natural aggregate incorporated fibre reinforced compressed earth blocks by Deb Dulal Tripura, Jagadish Lohar, Kasinikota Pardhasaradhi
14:55 - 15:05	TH-01-008	Soil Contamination Level in Cauvery Delta Region through Machine learning and GIS Techniques by A.Valarmathi, S. Nalini, M.Kalidhas
15:05 - 15:15	TH-01-009	Chemical And Mineralogical Evaluation of Soils For Their Suitability In Geotechnical Application by Sameer Vyas, Beena Anand, RP Pathak
15:15 - 15:25	TH-01-011	Determination of Suitability of Waste Materials for Improving Geotechnical Properties of Black Cotton Soil by Jitendra Khatti
15:25 - 15:35	TH-01-012	Effect of Sample Disturbance on Compression and Consolidation Properties by Lamsani Rajkumar
15:35 - 15:45	Q & A Session	

14:15 -15:45	Venue: A2 Hall Theme 02 - Geotechnical, Geological and Geophysical Investigation	
Session Coordinator: Dr. C.R. Parthasarathy, Sarathy Geotech Services, Bangalore Chairman: Prof. Ashish Juneja, IIT Bombay Co-Chairman: Dr. Seethalakshmi P, NIT Calicut		
14:15 - 14: 35	Theme lecture 02	Soil-atmosphere interaction : Relevance of unsaturated soil mechanics by Prof. Sreedeeep S, IIT Guwahati
14:35 - 14:45	TH-02-004	GIS mapping and modeling of dredged soil properties of Mangalam reservoir for sustainable reuse of soil in earthwork applications GIS mapping and modeling of dredged soil properties of Mangalam reservoir for sustainable reuse of soil in earthwork applications by Athira S
14:45 - 14:55	TH-02-005	Correlating Relative Density and Particle Distribution at Specific Compaction Energy of Cohesionless Soil in Ahmedabad Region by Shyamkumar Navinkumar Marsonia
14:55 - 15:05	TH-02-006	Geotechnical and Geophysical Characterization of a Site with Steeply Dipping Rock by Ravi Sundaram, Sorabh Gupta, Sanjay Gupta
15:05 - 15:15	TH-02-007	A Parametric study of the Yield of Ring Well - A Practical Approach by <i>H S Prasanna, Shashank S Shastry, Sharanprasad Rajesh B, Shivaprasad M, Sanjay Raj L</i>
15:15 - 15:25	TH-02-008	Using lab electrical resistivity testing to estimate geotechnical properties of some Bhubaneswar region soils by Raghava Bhamidipati, Lav Nayan, Rinki Mahato
15:25 - 15:35	TH-02-016	Geotechnical Investigations of Blended Borrow Area Materials for Suitability of Construction of Core for Proposed Earthen Dam by Rajesh Khanna, Manish Gupta, R. Chitra
15:35 - 15:45	Q & A Session	
14:15 -15:45	Venue: A11 Hall Theme 03 - Foundation Engineering	
Session Coordinator: Dr. Ravi S Jakka, IIT Roorkee Chairman: Prof. Priyanka Ghosh, IIT Kanpur Co-Chairman: Dr. Babloo Chaudhary, NIT Surathkal		
14:15 - 14: 35	Theme lecture 03	Emerging Trends in Foundation Engineering in India by Er. Manish Kumar, ITD Cementation India
14:35 - 14:45	TH-03-003	Analysis and Design of Foundation System for the Horizontal Solar Axis Tracker by Sreyashrao Surapreddi, G. Santhoshkumar and Priyanka Ghosh
14:45 - 14:55	TH-03-004	Bidirectional Static Load Test and Conventional Static Load Test on Bored Piles in Soil: A Field Comparison by Anil Cherian
14:55 - 15:05	TH-03-005	The Ultimate Bearing Capacity of Ring Footing with Inclined Base by Jitesh T. Chavda
15:05 - 15:15	TH-03-010	Comparative Study of Geotechnical Design of Foundations as per Indian and International Standards by Sowmiyaa V S; Ananthu Soman
15:15 - 15:25	TH-03-015	Parametric Study of The Behaviour of Large Piled-Raft Foundation on Stiff Clay by Rajib Modak and Baleswar Singh
15:25 - 15:35	TH-03-016	Estimation of shaft-base initial stiffness and ultimate resistance of O-cell piles by Nayakam Venkatesh, Kadali Srinivas, Madhav Madhira
15:35 - 15:45	Q & A Session	

14:15 -15:45	Venue: A12 Hall Theme 04 - Ground Improvement Techniques	
Session Coordinator: Dr. Arif Ali Baig Moughal, NIT Warangal Chairman: Prof. R.G. Robinson, IIT Madras Co-Chairman: Dr. Rakesh J Pillai, IIT Palakkad		
14:15 - 14: 35	Theme lecture 04	Moving towards Sustainable Ground Engineering by Er. Hari Krishna Yandamuri, Keller Ground Engineering India
14:35 - 14:45	TH-04-001	Enhancement of Soil Properties by Using Redmud and Lime by Sujit Kumar Rout
14:45 - 14:55	TH-04-002	Ground Improvement for Open Foundation on Soft Clays Using Stone Columna and PVD Drains for Retaining Walls and Approaches of Cable Stayed ROB by Anurag Goyal and Anjali Gupta
14:55 - 15:05	TH-04-003	State of the art on the extent of smear zone and variation of permeability during the installation of drain in clayey soil by Aparna R Pillai, Robinson R.G., S.R Gandhi
15:05 - 15:15	TH-04-004	State of the Art Review on Improvement of Strength Characteristics of Soil using Nano Silica by Jayanti Munda, Supriya Mohanty
15:15 - 15:25	TH-04-012	Densification of Flyash Deposits Equipped With Rammed Stone Column – A Case Study by Shadab Gadhiya, Maunank Modi
15:25 - 15:35	TH-04-014	Application of Prefabricated Vertical Drains (PVD) for Improvement of Soft Clays – A Case Study by Abhijeet Kanungo, V. Jaya Pragash
15:35 - 15:45	Q & A Session	
14:15 -15:45	Venue: A13 Hall Theme 07- Earth Retaining Structures, Dams and Embankments	
Session Coordinator: Prof. B. Uma Shankar, IIT Hyderabad Chairman: Prof. Dasaka. S.N. Murty, IIT Bombay Co-Chairman: Dr. A.P. Singh, Explore Engineering Consultants, Noida		
14:15 - 14: 35	Theme lecture 05	FEM modelling to ascertain movements of Reinforced Soil Structures by Er. Minimol Korulla, Macceferri
14:35 - 14:45	TH-07-003	Numerical study on effect of different compressible inclusions on lateral earth pressure reduction in rigid retaining wall by Anandha Raj L
14:45 - 14:55	TH-07-004	Study on Soil-Panel Interaction on Performance of MSE Wall by Dr. Anand Hulagabali, Dr C H Solanki, Dr. G R Dodagoudar
14:55 - 15:05	TH-07-007	Numerical Analysis of Earthen Embankment Resting on Soft Clay Deposit by Dr. Anand. M. Hulagabali, R. Srujana, A. V. Rachana, M. Y. Longkumer, C. S. Suhas
15:05 - 15:15	TH-07-008	Stability Enhancement Of Railway Embankment By Using Geosynthetic Layer by Furquan Ahmad, Pijush Samui
15:15 - 15:25	TH-07-012	Gabion Walls -A Remedial Measure for Slope Stabilization by Blacinta Pereira , Wilma Fernandes
15:25 - 15:35	TH-07-013	Behavior of Cantilever Concrete Diaphragm Wall under Sequential Excavation of Front-fill Soil: A Numerical Study by Abhijit Debnath, Sujit Kumar Pal
15:35 - 15:45	Q & A Session	
15:45 - 16:00	Tea Break	

16:00 - 17:55	Venue: BARN Hall Plenary Session 2	
Session Coordinator: Dr. Neelima Satyam, IIT Indore Chairman: Prof. M.R. Madhav, Professor Emeritus, JNTUH Co-Chairman: Dr. N. Kumar Pitchumani, AECOM		
16:00 - 16:10	Corporate Presentation 1 by Title Sponsor - L&T GeoStructure	
16:10 - 16:45	Keynote Lecture 4	THM Aspects of Poroelastic and Poroelasto-Plastic Geomaterials by Prof A.P.S. Selvadurai, McGill University, Canada (5:40 a.m., EST- Canada)
16:45 - 17:20	Keynote Lecture 5	New Design Frontiers with Geosynthetics in Geotechnical and Erosion Control Applications by Er. Moreno Scotto, Maccaferri, Italy (12:15 p.m., Italy)
17:20 - 17:55	Keynote Lecture 6	Geotechnical Risk: What is Acceptable? by Prof. Jean-Louis Briaud, Texas A&M University, USA (5:50 a.m., Texas-USA)
18:00 -20:30	AGM: Meeting Link: https://zoom.us/j/96374630030 Meeting ID: 963 7463 0030	
Day 2 - December 17, 2021, Friday		
9:00 -11:20	Venue: BARN Hall Plenary Session 3	
Session Coordinator: Prof. T. Thyagaraj, IIT Madras Chairman: Prof. K. Rajagopal, IIT Madras Co-Chairman: Prof. M. Mutharam, AU, Chennai		
9:00 - 9:35	Keynote Lecture 7	Internal Instability and Fluidization of Subgrade Soil under Cyclic Loading by Prof. Buddhima Indraratna, University of Technology Sydney, Australia (2:30 p.m., Sydney-Australia)
9:35 - 10:10	Keynote Lecture 8	Morphological Perspectives to Quantify and Mitigate Liquefaction in Sands by Prof. Madhavi Latha, IISc Bangalore
10:10 - 10:45	Keynote Lecture 9	Tank Foundations in Refineries/Petrochemical Plants by Er. V K Panwar, Engineers India Limited
10:45 - 11:20	Keynote Lecture 10	Innovative Liquefaction Mitigation Techniques by Prof. Alessandro Flora, University of Napoli Federico II, Napoly, Italy (6:15 a.m., Naples- Italy)
11:20 - 11:30	Tea Break	

FN SESSION 11:30 -13:00	Parallel Technical Session 2	
11:30 -13:00	Venue: EEE Auditorium Theme 04 - Ground Improvement Techniques	
Session Coordinator: Dr. Arif Ali Baig Moughal, NIT Warangal Chairman: Prof. B.V.S. Viswanadham, IIT Bombay Co-Chairman: Dr. Divya P. V, IIT Palakkad		
11:30 -11:50	Theme lecture 06	Response of Geosynthetic encased stone column supported embankment in soft clays by Prof. Rajesh Sathyamoorthy, IIT Kanpur
11:50 - 12:00	TH-04-036	Numerical Studies on Effects of Embankment Layer Construction Period on Consolidation Settlements of Underlain Soft Soil by <i>Rai Bahadur Reang, Sujit Kumar Pal, Sanjay Paul</i>
12:00 - 12:10	TH-04-039	Multivariate Regression Models to Predict Geotechnical Properties of Fly Ash Stabilised Clayey Soil by Niranjan Shekar, Sanku Konai
12:10 - 12:20	TH-04-042	A study on the strength aspects of alkali activated Red Mud-Crusher Dust blended Geo-polymer by Subham Jena
12:20 - 12:30	TH-04-044	A State-Of-The-Art Review on Electro-osmotic Treatment for Stabilization of Soft Soils by B.K. Pandey; S. Rajesh and S. Chandra
12:30 - 12:40	TH-04-048	Study on Time- Viscosity Characteristics of Microfine Slag with Dehydrated Lime as additive by Amit Patel, Nazimali Chinwala, Dr. N. H. Joshi, Mansi Parmar
12:40 -12:50	TH-04-049	Influence of intensity and position of surcharge on the performance of soil nail system by Krupa H R, S K Prasad
12:50 - 13:00	TH-04-056	Effect of Biopolymer Inclusion and Curing Conditions on the Failure Strain and Elastic Modulus of Cohesive Soil by Kopparthi Venkata Vydehi and Arif Ali Baig Moghal
11:30 -13:00	Venue: A2 Hall Theme 05 - Geo-Environmental Engineering	
Session Coordinator: Dr. Sujatha E Ramani, Sastra University Tanjore Chairman: Prof. D. Neelima Satyam, IIT Indore Co-Chairman: Dr. Ankesh Kumar, NIT Surat		
11:30 -11:50	Theme lecture 07	Stabilization of Industrially Contaminated Pb-Zn Slag Residue (LZSR) using Limestone Calcined Clay Cement (LC3) by Prof. C. H. Solanki, NIT Surat
11:50 - 12:00	TH-05-001	Influence of Freeze-Thaw Cycles on Biotreated Sand using MICP by Ms. Meghna Sharma, Dr. Neelima Satyam
12:00 - 12:10	TH-05-003	Performanve of Permeable Reactive Barrier by Using Rubber Particles by G.Venkatesan , M.Renganathan and L.Kavin Raj
12:10 - 12:20	TH-05-005	Interfacial Mechanical Properties and Microstructural properties of lead contaminated soil by Rima Mit shah
12:20 - 12:30	TH-05-034	Life cycle assessment of municipal solid waste for Indian cities by Devahi P, Deendayal R, and Muthukkumaran K
12:30 - 12:40	TH-05-008	A Review on Use of Biochar for Remediation of Heavy Metal Polluted Soils by <i>Bhoomi A. Kamdar, Dr. Chandresh H. Solanki</i>
12:40 -12:50	TH-05-009	Thermo-mechanical Behavior of Geothermal Energy Pile in Indian Sand by Shachi Yadav, Md Azhar, Somenath Mondal
12:50 - 13:00	Q & A Session	

11:30 -13:00	Venue: A11 Hall Theme 06- Soil Dynamics and Earthquake Geotechnical Engineering	
Session Coordinator: Dr. Sreevalsa Kolathayar, NIT Surathkal Chairman: Prof. Rajib Saha, NIT Agartala Co-Chairman: Dr.V.Senthil Kumar, NIT Pudhucherry		
11:30 -11:50	Theme Lecture 08	Vibration Analysis of Foundations subjected to Pulse Excitations with Negative Phase by Prof. Priti Maheswari, IIT Roorkee
11:50 - 12:00	TH-06-005	Liquefaction Analysis of Earth Embankment Dam Structure by Neetha Prabhakar , K Rangaswamy
12:00 - 12:10	TH-06-008	Role of Damping in Response of Hammer Foundation by Partha Gupta, Swagata Bisoi, Chattopadhyay B. C.
12:10 - 12:20	TH-06-009	Development of Shear Wave Velocity Profiles Using Active MASW on Kattangal Region soil deposits in Calicut of Kerala by P G Abhishek, K Rangaswamy
12:20 - 12:30	TH-06-010	Evaluation of Liquefaction Based on Hybrid Soft Computing Technique and Conventional Method by Shankar kumar, Sunita Kumari, Sufyan Ghani
12:30 - 12:40	TH-06-011	Failure Mechanisms of Pile-Supported Port Building in Liquefiable Sloping Ground during Earthquake by Monirul Mallick, Kalyan Kumar Mandal, Ramendu Bikas Sahu
12:40 -12:50	TH-06-012	Effect of Shaking Pattern on Re-liquefaction Potential of Solani Sand by Gowtham Padmanabhan; B.K.Maheshwari
12:50 - 13:00	Q & A Session	
11:30 -13:00	Venue: A12 Hall Theme 09 - Transportation Geotechnics	
Session Coordinator: Dr. J.P. Jeyapriya, GCE Coimbatore Chairman: Prof. Sireesh Saride, IIT Hyderabad Co-Chairman: Dr. G. Sridevi, BVRIT, Hyderabad		
11:30 -11:50	Theme Lecture 09	Geosynthetics in pavements: An Indian perspective by Prof. B. Umashankar, IIT Hyderabad
11:50 - 12:00	TH-09-001	Numerical Evaluation of Performance of the Geosynthetic Reinforced Walls with Poorly Graded Reinforced Fill by Mainak Majumder
12:00 - 12:10	TH-09-003	Relationship between Atterberg's Limits and CBR of Black Cotton Soil by Jitendra Khatti
12:10 - 12:20	TH-09-004	Influence of Existing Ganga Sand on Subgrade Characteristics of Rural Road in South Bengal Districts by Ansar Ali, Tufan Dutta and Dr B. C. Chattopadhyay
12:20 - 12:30	TH-09-012	Feasibility of Utilizing MSW Incinerated Bottom Ash for Subgrade & Sub-base Applications in Flexible Pavements by Deepesh Bansal, Prof. Manoj Datta & Prof. G.V. Ramana
12:30 - 12:40	TH-09-015	Effect of Soil Properties on the Rutting Performance of Flexible Pavement: A Numerical Study by Barnali Debnath
12:40 -12:50	TH-09-016	Evaluation of Pond ash mixed with Coir as a Pavement Material by Ashish Malik; Safeer Ahmed; S.K. Singh
12:50 - 13:00	Q & A Session	

11:30 -13:00	Venue: A13 Hall Theme 14 - Behaviour of Unsaturated Soils, Offshore and Marine Geotechnics, Remote Sensing and GIS, Instrumentation and Monitoring, Retrofitting of Geotechnical Structures, Reliability in Geotechnical Engineering	
Session Coordinator: Dr. B. Soundara, BIT, Sathy Chairman: Prof. G.V.R. Prasada Raju, JNTU, Kakinada Co-Chairman: Dr. B. Munwar Basha, IIT Hyderabad		
11:30 -11:50	Theme Lecture 10	Geotechnical Applications in Indian Infrastructure Development by Mr. M. Kumaran, L&T Geostructure
11:50 - 12:00	TH-14-001	Intelligent Assessment of Axial capacity of Pipe Piles using High Strain Dynamic Pile Load Tests in Offshore Environment by Ramdev Gohil, CR Parthasarathy
12:00 - 12:10	TH-14-006	Sinkholes: Trigger, Development and Subsidence – A Review by Margi Dave, Ashish Juneja
12:10 - 12:20	TH-14-011	Parametric Studies on Skirted Foundation Resting on Sandy Soil by Ongchuk Namgyal Lepcha, Plaban Deb, Sujit Kumar Pal
12:20 - 12:30	TH-14-013	Development of Foundation Suitability Maps for South Chennai using GIS by Gowri S Krishna
12:30 - 12:40	TH-14-016	Evaluation of Soil Liquefaction Potential Using Geospatial Technology by Hrik chaudhury, Abhishek Kumar, Rishikesh Bharti
12:40 -12:50	TH-14-021	Cycle Time Analysis and optimization of resources, cost and time involved in marine piling construction by Muthukkumaran K, Sai Aditya VVG, Devahi P
12:50 - 13:00	Q & A Session	
13:00 - 14:00	Lunch Break	
14:00 - 15:35	Venue: BARN Hall Plenary Session 4	
Session Coordinator: Dr. R. Senthilkumar, NIT Trichy Chairman: Prof. S.R. Gandhi, IIT Gandhinagar Co-Chairman: Er. I V Aniruthan, DFI India		
14:00 - 14:35	Keynote Lecture 11	Response of Passive Pile and Pile Groups with Axial and Tie Forces by Prof. K. Ilamparuthi, Anna University, Chennai
14:35 - 15:10	Keynote Lecture 12	A New Philosophy for Offshore Geotechnical Design; Theory and Practice by Prof. Susan Gourvenec, University of Southampton, UK (9:05 a.m., Southampton-UK)
15:10 - 15:35	Corporate Presentation 2	
15:10 - 15:20	Title Sponsor Sree Infrastructure	
15:20 - 15:28	Platinum Sponsor AIMIL	
15:28 - 15:35	Platinum Sponsor HEICO	
15:35 - 15:45	Tea Break	

AN SESSION 15:45 -17:45	Parallel Technical Session 3	
15:45 -17:45	Venue: EEE Auditorium Theme 02- Geotechnical, Geological and Geophysical Investigation	
Session Coordinator: Dr. B.P. Naveen, Amity University Chairman: Prof.T. Thyagaraj, IIT Madras Co-Chairman: Dr. B. Janaki Ramaiah, IIT Tirupati		
15:45 - 16:05	Theme Lecture 11	Design and Construction of Jack-in Piles by Dr. Jaykumar Shukla, Geo Dynamics
16:05 - 16:15	TH-03-017	A Numerical Study of Performance of Large Piled Raft Foundation on Sand under Vertical Loading by Banchiva K. Marak ; Baleshwar Singh
16:15 - 16:25	TH-03-024	Effect of Compressibility on Undrained Bearing Capacity Factor Nc for Circular Footings on Soft Ground by J Y V. Shiva Bhushan, Madhav Madhira and G. V. Narasimha Reddy
16:25 - 16:35	TH-03-028	Raft Foundation Analysis for 135 m High-Rise Residential Tower in Noida by Ravi Sundaram, Sorabh Gupta, Gyan Singh
16:35 - 16:45	TH-03-030	Model Study on Single Pile Subjected To Axial and Inclined Load Embedded In Contaminated Soil by Rutvik Kalthiya, Jay Dav
16:45 - 16:55	TH-03-031	Behaviour of Combined Piled-Raft Foundation under Eccentric Loading by Hannanur Rahaman, Plaban Deb, Sujit Kumar Pal
16:55 - 17:05	TH-03-032	Investigation on Optimization of Foundation Shape for Onshore Wind Turbine by Deva Kumar M, Rajesh Katyal, Anil Kumar Sharma, Haridharan M K
17:05 - 17:15	TH-03-034	Analysis of Load Distribution Coefficient of Piled Raft System: A Numerical Approach by Plaban Deb
17:15 - 17:25	TH-03-036	Effect of Slope Inclination on V-H and V-M Capacity Envelope of Strip Foundation on Undrained Clay Slope by Ayushi Goyal, Aarushi Maurya, Dhiraj Raj, Bharathi M
17:25 - 17:35	TH-03-038	Wind Turbine Foundation Using PHC Piles in Problematic Soil by Dhanraj Nath, Plaban Deb, Sujit Kumar Pal
17:35 - 17:45	Q & A Session	
15:45 -17:45	Venue: A2 Hall Theme 03 - Foundation Engineering	
Session Coordinator: Prof. C.N.V. Satyanarayana Reddy, Andhra University Visakhapatnam Chairman: Prof. Amit Prashant, IIT Gandhinagar Co-Chairman: Dr. Aruna Kumari, Worley India Ltd., Hyderabad		
15:45 - 16:05	Theme Lecture 12	Data-Driven models in Geotechnical Engineering by Dr. Pijush Samui, NIT Patna
16:05 - 16:15	TH-04-018	Performance Evaluation of Earthen Embankment underlain by Marine Clay Deposit with Ground Improvement Techniques – A Case Study of Mangaluru Region, Karnataka by Dr. A. M. Hulagabali, R. Srujana, A. V. Rachana, M. Y. Longkumer, C. S. Suhas
16:15 - 16:25	TH-04-022	An Experimental study on Development of Bearing Capacity of Soft Clay Soil Using Stone Column with Bamboo Sheet Plate by Soumitra Biswas, Dr.Nirmali Borthakur

16:25 - 16:35	TH-04-023	Evaluation of Heave Behaviour by Numerical Modelling of Granular Pile Anchor in Expansive Soil by Renuka Roy , <i>Dr.Ch.Nageshwar Rao, Dr.S.Sasanka Mouli</i>
16:35 - 16:45	TH-04-025	A Study of Load Distribution between Soil and Stone Columns by Vamja Shreya , <i>Dr. E. C. Nirmala Peter</i>
16:45 - 16:55	TH-04-029	An Experimental Study to Determine the Best Aggregate Mixture for Stone Columns by Dipika Choudhury , <i>Rai Bahadur Reang, Sanjay Paul</i>
16:55 - 17:05	TH-04-031	Static and Dynamic Study on the Performance of Modified Stone-Column in Ahmedabad Soil by Milind Amin , <i>Manendra Singh</i>
17:05 - 17:15	TH-04-032	Subgrade Strength Prediction Modeling On Fiber-Reinforced Expansive Soil Treated With Alkali Activated Binder by Mazhar Syed , <i>Anasua GuhaRay and Divyam Goel</i>
17:15 - 17:25	TH-04-033	Behavior of Jute Fibre-reinforced Sand Soil: An Experimental Investigation for Ground Engineering Application by Shashank singh and <i>Dr. Shiv Shankar Kumar</i>
17:25 - 17:35	TH-04-038	Improvement of Soft Ground by Employing Granular Piles below Raft by Dhanraj Nath , <i>Plaban Deb, Sujit Kumar Pal</i>
17:35 - 17:45	Q & A Session	
15:45 -17:45	Venue: A11 Hall Theme 11 - Computational, Analytical and Numerical Modelling	
Session Coordinator: Dr.G. Kalyan Kumar, NIT Warangal Chairman: Prof. Sarat Kumar Das, IIT Dhanbad Co-Chairman: Dr. Shivshankarkumar, NIT Patna		
15:45 - 16:05	Theme Lecture 13	Response of existing underground metro tunnel to new construction activities by Prof. R. Ayothiraman, IIT Delhi
16:05 - 16:15	TH-11-002	Probabilistic Analysis of a Geosynthetic Reinforced Soil Retaining Wall under Seismic Conditions using Genetic Programming by Ekansh Agarwal ; <i>Ajeet Kumar Verma; Anindya Pain; Shantanu Sarkar</i>
16:15 - 16:25	TH-11-003	A Parametric Study for Optimum Design of Combined Piled Raft Foundation(CPRF) by Ede Lakshmi Suresh Babu , <i>G Suneel Kumar, Suvendu Kumar Sasmal, Rabi Narayan Behera</i>
16:25 - 16:35	TH-11-005	A Numerical Study on Hydrodynamic and Liquefaction Analysis of Coastline Protected With Geotubes by A Henitha Banumathi , <i>S P Jeyapriya</i>
16:35 - 16:45	TH-11-008	Potential Use of Fine Fraction of Municipal Solid Waste as Replacement of Soil in Embankment by Parul Rawat and <i>Supriya Mohanty</i>
16:45 - 16:55	TH-11-011	A Review on Numerical Simulation of Large Deformations in Geotechnical Engineering by Kritesh Chouhan , <i>Jitesh T. Chavda</i>
16:55 - 17:05	TH-11-013	Numerical Modelling for Prediction of Ground Subsidence Over Room and Pillar Mining in an Underground Coal Seam by Nisheeth Shekhar ; <i>Supriya Pal; Arpan Jaiswal; Pratip Hazara</i>
17:05 - 17:15	TH-11-014	Behavior of Skirted Foundation Under Different Loading Conditions Using FEM Approach by Piyush Katariya
17:15 - 17:25	TH-11-016	Sensitivity Study of the Pressure-Dependent Soil Model Based on the Abutment-Backfill Pushover Behaviour by Aritra Bagchi , <i>Dr. Prishati Raychowdhury</i>
17:25 - 17:35	TH-11-018	Lateral Displacements of Soft Soil treated with PVD's under Embankment Loading by C. Abhinay Kumar , <i>J Y V. Shiva Bhushan and Madhav Madhira</i>
17:35 - 17:45	Q & A Session	

15:45 -17:45	Venue: A12 Hall Theme 12 - Rock Engineering, Tunnelling, Deep Excavations and Underground Constructions	
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Session Coordinator: Dr. M. Muthukumar, VIT, Vellore Chairman: Prof. Mahendra Singh, IIT Roorkee Co-Chairman: Dr. V B Maji, IIT Madras		
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15:45 - 16:05	Theme Lecture 14	Causes of slope failure and mitigation measures adopted-A discussion through Case Studies by Er. Annapoorni Iyer, Engosym Consultants
16:05 - 16:15	TH-12-001	Effects of the Shield-Driving on Soil Arching around the Tunnel by M Vinoth, Aswathy M S
16:15 - 16:25	TH-12-003	Seismic Stability Assessment of Horseshoe-shaped Tunnel Using a Pseudo-static Approach by Ambika Srivastav, Neelima Satyam
16:25 - 16:35	TH-12-005	Numerical Analysis of Ground settlement induced by Shallow Tunnels by Rajaraman Ramanathan
16:35 - 16:45	TH-12-009	Parametric Study on the Performance of Temporary Secant Pile Wall by Gowthaman V J, Anburaj C
16:45 - 16:55	TH-12-011	Crack growth in rocks with pre-existing flaws subjected to uniaxial and biaxial compression by Sivakumar G and VB Maji
16:55 - 17:05	TH-12-015	Effect of Volume Loss during Tunnel Construction on the Ground Surface by Rahul Shakya, Manendra Singh
17:05 - 17:15	TH-12-023	Correlation of Ultrasonic Pulse Velocity (V_p and V_s), Static & Dynamic Young's Modulus & Poisson's Ratio and other Engineering Properties of Different Rock found in India with Petrographic Characteristics by J. S. Salunkhe & Miss Damini Pawar
17:15 - 17:25	TH-12-026	Elastic Perfectly Plastic Behaviour of Lower Siwalik Sandstones by D.V. Sarwade, Pankaj Kumar, K.K. Mishra, Senthil. P, and Hari Dev
17:25 - 17:35	TH-12-027	Incorporation of Surrounding Rock Layer Presence in the Design of Underground Cut & Cover Box Structure by Chiranjib Sarkar, Ankit Som, Ganesh Deepak Kanchuboyina
17:35 - 17:45	TH-14-025	Modelling Soil Water Retention Curve for Cohesive Soil Using Artificial Neural Network by Sharanya A G, M Heeralal, T Thyagaraj

17:35 - 17:45	Q & A Session	
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15:45 -17:45	Venue: A13 Hall Theme 13 - Forensic Geotechnical Engineering and Case Studies	
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Session Coordinator: Dr. V. Gayathri, KCT, Coimbatore Chairman: Prof. S. Karthigeyan, AU, Chennai Co-Chairman: Dr. N. Darga Kumar, JNTUH, Manthani		
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15:45 - 16:05	Theme Lecture 15	Standard Penetration Tests N Values Corrections and Hammer Energy-Effect on Rebound, SBC and Shear Modulus by Dr. P. Anbazhagan, IISc Bangalore
16:05 - 16:15	TH-13-001	Forensic Analysis of Foundation Systems of Taj Mahal by Leonardo Souza, Yeshwant Prabhu Chodnekar, Purnanand P Savoikar
16:15 - 16:25	TH-13-004	Heritage Impact Assessment of the Subordinate Court Complex near the David Yale and Joseph Hyner's Tomb by Angel Paul, Aishwarya.K.V, Keerthana.M, Dr. T. Sathyamurthy, Dr. Jitesh T. Chavda
16:25 - 16:35	TH-13-006	Numerical Investigation on the Influence of Different Parameters on a Vegetated Slope - A Case Study by Vishnu G, Tadikonda Venkata Bharat

16:35 - 16:45	TH-13-008	A Geotechnical Study on Failed Base Slab of Molasses Tank by N Darga Kumar and C Lavanya
16:45 - 16:55	TH-13-013	Geotechnical Design and Execution of Driven Spun Piles in Estuary clay deposits by Gouri Krishna & M. Jeevan Reddy
16:55 - 17:05	TH-09-017	Strength and Durability Characteristics of Cement Stabilized Soil for its Application in Sub-Base and Base Course of Flexible Pavements by Gaurav Gupta
17:05 - 17:15	TH-09-019	Experimental and Numerical Study on California Bearing Ratio for Two-Layer Soil Systems by Razib Hussain, Amit Kumar Das
17:15 - 17:25	TH-05-031	A Review on Removal of Heavy Metals From Contaminated Soils by Phytoremediation by Pratyasha Singh, Aparupa Pani
17:25 - 17:35	TH-05-007	Influence of Slope Geometry on Stability of Bioreactor Landfills – A Numerical Analysis by Dharmendra Kumar Gurjar; Arvind Kumar Jha
17:35 - 17:45	Q & A Session	
18:00 - 20:00	Cultural Program (You Tube Live Stream Link: https://youtu.be/h32rqaV_tYs)	
Day 3 - December 18, 2021, Saturday		
9:00 - 11:00	Venue: BARN Hall Plenary Session 5	
Session Coordinator: Prof. C.H. Solanki, NIT Surat		
Chairman: Prof. A. Boominathan, IIT Madras		
Co-Chairman: Prof. K.S. Beena, CUSAT, Cochin		
09:00 - 09:35	Keynote Lecture 13	Wraparound Reinforcement Technique for Strengthening the Shallow Foundations – A Sustainable Approach by Prof. Sanjay Kumar Shukla, Edith Cowan University, Australia (11:30 a.m., Perth-Australia)
09:35 - 10:10	Keynote Lecture 14	Geological Surprises and Challenges in Geotechnical investigations of projects by Dr. R. Chitra, CSMRS, New Delhi
10:10 - 10:45	Keynote Lecture 15	Dilatometer - an In-Situ Soil Exploration Tool for Problematic Ground Conditions vis-à-vis for Economizing Construction activities by Prof. Kaushik Bandyopadhyay, Jadavpur University, Kolkata
10:45 - 11:00	Corporate Presentation 3	
10:45 - 10:53	Platinum Sponsor - Complete Instrumentation Solutions	
10:53 - 11:00	Platinum Sponsor - OOO "GEOTEK"	
11:00 - 11:10	Tea Break	

FN SESSION 11:10 -13:10	Parallel Technical Session 4	
11:10 -13:10	Venue: BARN Hall Theme 02 - Geotechnical, Geological and Geophysical Investigation	
Session Coordinator: Dr.P.V. Premalatha, Oxford, Trichy Chairman: Prof. Premalatha K, AU, Chennai Co-Chairman: Dr. Ramana G V, NIT Warangal		
11:10 -11:30	Theme lecture 16	Role of a-priori information in minimizing uncertainties in MASW testing by Prof. Ravi S Jakka, IIT Roorkee
11:30 - 11:40	TH-02-018	Importance of Geotechnical Investigation in Bidding Phase of EPC Projects by Akshay Bagal, and Muthukkumaran.K.,
11:40 - 11:50	TH-02-023	Experimental Investigation on Effect of Soil Consistency on Pullout Behavior of Plate Anchors in Reinforced Clay by Ravi Shankar, Subhadeep Banerjee and Sarvesh
11:50 - 12:00	TH-02-024	Geotechnical & Geophysical Characterization of Vado-dara Region, Gujarat, India by Payal Mehta, T. P. Thaker, Nagdeep Desai, Markana Paras, Hirapara Jaydeep
12:00 - 12:10	TH-01-013	A Critical Review On Potential Use Of Iron Ore Tailings As Backfill Material by Athira.S
12:10 - 12:20	TH-01-016	New Classification System of Correlating Compressibility and Expansivity of Clay by Vijaya Raj S, Stalin V K
12.20 - 12.30	TH-01-018	Analysis of Particle Breakage for Blasted Rockfill Material under Large Size Triaxial Testing by Uday Bhanu Chakraborty
12.30 - 12.40	TH-01-019	Elemental Assessment Of Pond Ash For Evaluating Its Application As A Subbase Material For Hardstand Construction by Aditya Shankar Ghosh; Tapas Kumar Roy
12.40 - 12.50	TH-01-020	Effect of Moisture Content on the Shear Strength Parameters by Palani Kumar A, Suresh Maurya, Dr. Manish Gupta, Dr. R. Chitra, Kuldeep Kalra
12.50 - 13:00	TH-01-022	Compaction characteristics of fiber reinforced expansive soils - Plasticity approach by Jyothi D N, Prasanna H S, Nageshwar D K, Kumarswamy K, Akash
13:00 - 13:10	TH-01-026	Parametric Study on Compaction Characteristics of Clay Sand Mixtures by Yogeshraj Urs C, H. S. Prasanna
11:10 -13:10	Venue: EEE Auditorium Theme 03 - Foundation Engineering	
Session Coordinator: Prof. C.N.V. Satyanarayana Reddy, Andhra University Visakhapatnam Chairman: Dr. Ravi Kiran Vaidya, Geo Dynamics, Vadodara Co-Chairman: Prof. M. Rama Rao, RVRJCCE, Guntur		
11:10 -11:30	Theme lecture 17	Challenges in Offshore Pile Driving – A Case Study on refusal condition by Dr. C. R. Parthasarathy, Sarathy Geotech & Engineering services
11:30 - 11:40	TH-03-042	Effect of Symmetry on Pile Foundations under Pseudo-Static Loading by Aniket Chanda, Saumitro Mandal, Arghadeep Biswa
11:40 - 11:50	TH-03-043	Behavior of Pile in Sloped Grounds Under the Influence of Surcharge Loads by Jegatheeswaran Boopandi, Muthukkumaran.K, Manjula.R
11:50 - 12:00	TH-03-048	Influence of Flexural Rigidity of Footing and Shear Strength of Supporting Soil on Internal Stresses in Foundation by Aleena Sam, Arunima Anil A, Smitha Anna Kurian, Sujina Kabeer, Jayamohan J, Swathy Pushpan

12:00 - 12:10	TH-03-049	Influence of oil spill on the Load-Settlement Behaviour of Footings of Adjacent Structures by <i>Ardra S B, Athira H A, Janu J P, Parvathy S, Jayamohan J, Shruthi Johnson</i>
12:10 - 12:20	TH-03-051	Behavior of Vertical and Battered Piles under Combined Axial and Lateral Load by Poulami Ghosh , <i>Shilak Bhaumik, Sibapriya Mukherjee</i>
12.20 - 12.30	TH-03-052	Bearing capacity of strip footing on cohesive soil slopes by Rajesh Prasad Shukla , <i>Ravi S. Jakka</i>
12.30 - 12.40	TH-03-053	Comparative solutions of laterally loaded piles in clay using subgrade modulus approach by Rupam Mahanta
12.40 - 12.50	TH-03-057	An Overview of Large Capacity Pile Load Test – Case study by Vani B & Madan Kumar Annam
12.50 - 13:00	TH-03-061	Influence of Soil Cover on Lateral Response of Rock-Socketed Piles by C. R. Neeraj , <i>K.T. Saikumar, Sudheesh Thiyyakkandi</i>
13:00 - 13:10	TH-03-062	Reliability-based design and optimization of pile foundation using surrogate models by Fathima Sana V.K. , <i>Nazeeh K.M. and Sivakumar Babu G.L.</i>

11:10 -13:10	Venue: A2 Hall Theme 05 - Geo-Environmental Engineering	
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Session Coordinator: Dr. Sujatha E Ramani , Sastra University Tanjore Chairman: Prof. Satyendra Mittal , IIT Roorkee Co-Chairman: Dr. Naveen BP , Amity University		
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11:10 -11:30	Theme Lecture 18	Application of Bio-engineering for stabilization of marginal soils: “An Eco-Sustainable and Eco-friendly Ground Improvement Technique” by Prof. Bashir Ahmed Mir , NIT Srinagar
11:30 - 11:40	TH-05-010	Experimental Study on Volumetric Shrinkage Behaviour of Indian Clays by Ankti Srivastava
11:40 - 11:50	TH-05-011	Influence of Biochar Particle Size Fractions on Thermal Properties of Biochar Amended Soil by Deepak Patwa ; <i>K Ravi; Sreedeeep S.</i>
11:50 - 12:00	TH-05-013	Study of Soil Erosion Process in Laboratory Flume Experiments by Charu Chauhan
12:00 - 12:10	TH-05-015	Assessment of Adsorptive removal of Naphthalene through Constructed Wetland using Physical and Numerical Modeling by Avishek Adhikary , <i>Pradyumna Konar, Tapabrata Chakraborty, Supriya Pal</i>
12:10 - 12:20	TH-05-020	Stabilized soil as a sustainable construction material using Rammed earth technique by Kola Vikas
12.20 - 12.30	TH-05-021	A Study on Pore Size Distribution of Compacted Expansive soils by Sabari Ramesh , <i>T. Thyagaraj</i>
12.30 - 12.40	TH-05-022	Assessment of Using Soil Sized Material from Construction & Demolition Waste as an Earthfill by Apoorva Agarwal
12.40 - 12.50	TH-05-023	Use of Red Mud as an Amendment or Adsorbent in Various Geoenvironmental Engineering Applications by Aruri Vidya ; <i>Narala Gangadhara Reddy; Kundan Samal</i>
12.50 - 13:00	TH-05-025	Relevance of Rheological Properties of Bauxite Residue with Slump and Undrained Shear Strength Properties by Shivesh Kumar and <i>B. Hanumantha Rao</i>
13:00 - 13:10	TH-05-027	Experimental and Numerical Studies on Usage of Soil-Bentonite Mixture as Clay Liner in Engineered Landfill by S Anjali , <i>A R Ajitha, P Seethalakshmi</i>

11:10 -13:10	Venue: A11 Hall Theme 06- Soil Dynamics and Earthquake Geotechnical Engineering	
Session Coordinator: Dr. Sreevalsa Kolathayar, NIT Surathkal Chairman: Prof. Ramana Murthy V, NIT Warangal Co-Chairman: Dr. Kumar Venkatesh, MNNIT, Allahabad		
11:10 - 11:20	TH-06-037	1D, 2D & 3D Seismic Response Analysis of Shallow and Deep Foundation Resting on Stratified Soil Deposit by <i>Amit Kumar Ram, Anjali Verma, Supriya Mohanty</i>
11:20 - 11:30	TH-06-041	Transient Response of Shallow Foundation Under Eccentric Static and Cyclic Load by <i>Suvendu Kumar Sasmal, Rabi Narayan Behera</i>
11:30 - 11:40	TH-06-042	Nonlinear Analysis of Soil Pile Interaction Under Seismic Loads by <i>Siri Reddy, G V S K Harini and Dr. Thanikella Vijayasri</i>
11:40 - 11:50	TH-06-043	Performance Evaluation of Single and Multiple Trenches in Screening of Ground Vibrations by <i>Nitish Jauhari, Amarnath Hegde</i>
11:50 - 12:00	TH-06-044	Determination of Design Response Spectra for Site Class D and E for Guwahati city, NE India Region by <i>Niranjan Borah, Joy Kumar Mondal, Abhishek Kumar</i>
12:00 - 12:10	TH-06-046	Liquefaction Potential Analysis of Agartala Region Using Arias Intensity Approach by <i>Abhileen Chatterjee, Sima Ghosh</i>
12:10 - 12:20	TH-06-049	Regional Rupture Based Seismic Hazard Analysis of Tripura State- Ne India by <i>Dr P Anbhazhagan</i>
12.20 - 12.30	TH-06-050	Effect of fine content on liquefaction resistance of sand by <i>Nishigandha Gopal Rathod</i>
12.30 - 12.40	TH-06-051	Effects of Soil Properties and Input Motion on Liquefaction Zones in Backfill and foundation soil of Quay Walls by <i>Pushpa K, Prasad S K, Nanjundaswamy P</i>
12.40 - 12.50	TH-06-052	Seismic Performance Evaluation of E-Waste-Georeinforced Embankment and Pavement by <i>K. Muthukkumaran, Yagnya Prasad Pradhan, Rima Das</i>
12.50 - 13:00	TH-06-062	Study on Liquefaction Evaluation of Subsoil Strata along Visakhapatnam Coastal Area by <i>C.N.V. Satyanarayana Reddy and A. Harika</i>
13:00 - 13:10	TH-06-063	Generation of Probabilistic Seismic hazard map of Assam state by <i>Srijit Bandyopadhyay, Y.M.Parulekar, A Sengeupta, J Chattyopadhyay</i>
11:10 -13:10	Venue: A12 Hall Theme 08 - Slope Stability and Landslides	
Session Coordinator: Dr. Jeevan Joseph, NIT Trichy Chairman: Prof. Ashim Kanti Dey, NIT Silchar Co-Chairman: Dr. Amarnath Hegde, IIT Patna		
11:30 -11:50	Theme Lecture 19	Landslides in lateritic soils by Prof. Purnanand Pundalik Savoikar, Goa College of Engineering
11:50 - 12:00	TH-08-004	Historical Development of Landslide Early Warning System (LSEWS): A Review by <i>Prashant Sudani, Dr Kailas A Patil, Dr Yashwant A Kolekar</i>
12:00 - 12:10	TH-08-007	Seismic Stability and Landslide Simulations on Hill Region Soil Profiles of Kerala by <i>Geethu Maria Joseph, Dr. Kodi Rangaswamy</i>

12:10 - 12:20	TH-08-008	Parametric and Stability Analysis of Landslide near Somwarpet, Coorg District, Karnataka by <i>Dr. A. M. Hulagabali, V. Shilpa, N. C. Shobharani, G. S. Vasundhara, M. L. Prashanth</i>
12:20 - 12:30	TH-08-014	Reduction Of Surface Erosion Of Soil Slopes Using Alkali Activated Binder Treated Jute Fibers by Gunde Sachin Chakravarthy, Anasua GuhaRay
12:30 - 12:40	TH-08-018	Experimental Investigation of Pull-out Resistance of Grouted Soil Nails- A Critical Review by Ruchita Shashikant Salvi, Ashish Juneja
12:40 -12:50	TH-08-022	Probabilistic Slope Stability Analysis of Bioreactor Landfills by Ankit Goel, Subhadeep Metya and Gautam Bhattacharya
12:50 -13:10	Q & A Session	
11:10 -13:10	Venue: A13 Hall Theme 10 - Geosynthetics Application	
Session Coordinator: Dr. Rajesh Sathyamoorthy, IIT Kanpur Chairman: Prof. G. R. Dodagoudar, IIT Madras Co-Chairman: Dr. G Kalyan Kumar, NIT Warangal		
11:10 -11:30	Theme Lecture 20	Geosynthetics and Reinforced Soil Structures in India – Experiences, challenges and the path forward by Dr. Jimmy Thomas, Geotechnical consultant, Kochi
11:30 - 11:40	TH-10-001	Coconut Tree Roots as a Natural Geosynthetics by Leonardo Souza, Purnanand Savoikar
11:40 - 11:50	TH-10-002	Review on the application of Geosynthetic for ground improvement by Kausatv Das
11:50 - 12:00	TH-10-005	Improvement of Railway Embankment Formation by laying Geogrid beneath ballast Bed - A Case Study by Akshay Kumar Jha
12:00 - 12:10	TH-10-011	Simulation of Geosynthetic Encased Stone Column under Embankment Loading In Soft Clay by Jitendra Kumar Pradhan, Abdhesh Kumar Sinha
12:10 - 12:20	TH-10-014	Influence of Conductive Jute Geotextile-Encased Stone Column in Soft Clay by B.K. Pandey; S. Rajesh and S. Chandra
12.20 - 12.30	TH-10-018	A state-of-the-art review on Geosynthetics – Past Findings, Present Trends and Future Prospects by Deendayal Rathod and P. Devahi
12.30 - 12.40	TH-10-019	Strip Footing on Reinforced Granular Bed Overlying Soft Soil Using Bearing Reinforcement by S. Aditya and R. Shivashankar
12.40 - 12.50	TH-10-022	Study of Bearing Capacity of Shallow Foundation on Bamboo Geotextile Reinforced Clayey Bed by Sudeepta Malakar
12.50 - 13:00	TH-01-032	Geotechnical properties of soils stabilized with urea formaldehyde polymer by Dr. Neelam Phougat, R K Bharti, Dr. R Chitra
13:00 - 13:10	TH-01-041	A Critical Appraisal of the Relationship between Liquid Limit and Specific Surface Area and Cation Exchange Capacity of Clays by Suresh Ranga

AN SESSION 14:00 -16:00	Parallel Technical Session 5	
14:00 -16:00	<p style="text-align: center;">Venue: BARN Hall Theme 04 - Ground Improvement Techniques</p>	
<p>Session Coordinator: Dr. Arif Ali Baig Moughal, NIT Warangal Chairman: Prof. H.N. Ramesh, Bangalore University Co-Chairman: Dr. Arvind Kumar Jha, IIT Patna</p>		
14:00 - 14:10	TH-04-058	Producing Biochar from Crop Residues for Safe and Environment-friendly Waste Management and Using as an Innovative Material for Soil and Ground Improvement by Mahendra Pratap Choudhary , H. D. Charan, Biswajit Acharya
14:10 - 14:20	TH-04-061	A Review on Comparative Study of Stabilization of Black Cotton Soil by Different Chemical Stabilizer by Sukanya Sharma
14:20 - 14:30	TH-04-062	Stabilization of Subgrade Soil Using Shredded Waste Plastic Bags by Salini U
14:30 - 14:40	TH-04-063	Mitigation of Liquefaction in Silty Soil using Vibro Stone Column with Surcharge by Dr. Anurag Chafale & Mr. Madan Kumar Annam
14:40 - 14:50	TH-04-064	Studies on consolidation characteristics of marine clay using geodrain by Ashvini Mehta , Prof. (Dr.) S.P.Dave, Prof. Shalini Singh
14:50 - 15:00	TH-04-065	Mechanical Behaviour of Silty Soil Reinforced with Carbon Fibers by Nadeem Gul , Bashir Ahmed Mir, K M N Saquib Wani
15:00 - 15:10	TH-04-067	Evaluation on the Shear Strength Characteristics of Soil Reinforced with Randomly Distributed Areca Fibers by Dr. Femy M Makkar , Riya Maria George, Shilpa Babu , Shifana I
15:10 - 15:20	TH-04-073	Design of Foundation on Erratic Landfill with Ground Improvement Techniques by Satchithananda satheesh
15:20 - 15:30	TH-04-076	Improvement of Soil Subgrade with Shredded Rubber Tyre Waste by Shuvankar Chowdhury , Saroj Kundu
15:30 - 15:40	TH-04-079	Use of Nylon Fibers in Improving the Strength of Weak Laterite Soil Blended with Metakaolin and Pofa by L N V N Varaprasad , R.Dayakar Babu
15:40 - 15:50	TH-04-082	Amelioration of Strength Characteristics of Expansive Soil Treated With Calcium Chloride and Terrasil by K. Ramu , R. Dayakar babu & K. Abhiram
15:50 - 16:00	TH-04-088	Effect of sawdust and sawdust ash on expansive soil by Rajesh Prasad Shukla , Divyanshu Algotar , Sabbasachi Saha
14:00 -16:00	<p style="text-align: center;">Venue: EEE Auditorium Theme 06- Soil Dynamics and Earthquake Geotechnical Engineering</p>	
<p>Session Coordinator: Dr. Sreevalsa Kolathayar, NIT Surathkal Chairman: Prof. S. K. Prasad, Mysuru Co-Chairman: Dr. Kodi Ranga Swamy, NIT Calicut</p>		
14:00 - 14:10	TH-06-013	Plasticity based Liquefaction Prediction using Support Vector Machine and Adaptive Neuro Fuzzy Inference System by Sufyan Ghani and Sunita Kumari
14:10 - 14:20	TH-06-014	Effect of Foundation Size on the Dynamic Behavior of Cohesionless Soil-Foundation System by Gobinda Das and Priyanka Ghosh

14:20 - 14:30	TH-06-016	Impact of Low Frequency Ground Motions on Local Site Effect by Arunsiya R, Abhishek Kumar
14:30 - 14:40	TH-06-017	Determination of Seismic Bearing Capacity of Soil Using Experimentally Obtained Failure Surface by Annoy Kumar Ghosh, Prof. Ashim Kanti Dey
14:40 - 14:50	TH-06-018	Liquefaction Study of Subsurface Soil in Southern Jorhat, Assam by Kapil Saikia; Sahidul Haque; Krishan Borah.
14:50 - 15:00	TH-06-022	Site-specific Ground Response Analysis for Seismic Ground Engineering Application by Suryakant kumar sisodiya and Dr. Shiv shankar kumar
15:00 - 15:10	TH-06-023	Effect of earthquake on the Footing Placed on the Different Location of the Slope Surface by Shantanu Saraswat, Manendra Singh
15:10 - 15:20	TH-06-028	Seismic Vulnerability of Residential Buildings in Jammu City, Jammu and Kashmir by Abdullah Ansari; Falak Zahoor; KS Rao; AK Jain; T anzeel Ur Riyaz
15:20 - 15:30	TH-06-029	Signicance of Impedance Ratio Incase of Infilled -Pile Barriers for Vibration Isolation by Thentu Jahnavi and DR Sanjit Biswas
15:30 - 15:40	TH-06-030	Assessment of Underground Structure-Soil Interaction under Dynamic Conditions by Amith K S, Ganesh Kumar S
15:40 - 15:50	TH-06-031	Local Site Effects using HVSR Analysis along Srinagar Metro Rail Alignment, Jammu and Kashmir by Falak Zahoor, K. Seshagiri Rao, Fuzail Showkat Wani, Syed Mehran Andrabi, Neelima Satyam
15:50 - 16:00	TH-06-032	Study of Shallow Soil Deposit in East Coast of India by Multiple Geophysical Approaches by Ayush Kumar, Anbazhagan Panjamani, Ravinesh Kumar, Lenin Kuyam Rathinavelu

14:00 -16:00	Venue: A2 Hall Theme 07- Earth Retaining Structures, Dams and Embankments	
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Session Coordinator: Dr. Deendayal Rathod, NIT Trichy		
Chairman: Prof. P.T. Ravichandran, SRM Chennai		
Co-Chairman: Er. Vetriselvan, L&T GeoStructure, Chennai		

14:00 - 14:10	TH-07-020	Performance Evaluation of Scrap Rubber-Sand Mixture Reinforced With Geogrids as a Backfill Matireal in Retaining Walls by K P Anjali, Dr. Renjitha Mary Varghese
14:10 - 14:20	TH-07-022	Structural Behaviour of Partial Seepage Barriers for Variations in Depth of Pervious Stratum by S Sivakumar, Dr. N. Almas Begum, Dr. P.V. Premalatha
14:20 - 14:30	TH-07-023	A Comparative Study on Stability Analysis of a Tailings Dam Considering Transient and Steady-State Seepage Condition by Surender Singh, Abhishek Kumar and T.G. Sitharam
14:30 - 14:40	TH-07-024	Seismic Stability of Reinforced Soil Wall Using Horizontal Slice Method – Effect of Surcharge on Cohesive Frictional Soils by M C Venkata Subbaia
14:40 - 14:50	TH-07-025	Construction of Diaphragm Wall for Seawater Intake Pump House by Govind Raj, Madan Kumar Annam, Bairagi Kondapalli
14:50 - 15:00	TH-07-026	Review of Use of Asphaltic Concrete Core in Earthen/ Rock-Fill Embankment Dam by Satyajit Roy, V K Jain, Manish Gupta and R Chitra
15:00 - 15:10	TH-07-028	Behavior of Diaphragm Wall in Semi Top-down Construction Method: A Case Study by Vimala C, PVSR Prasad & Madan Kumar Annam
15:10 - 15:20	TH-07-029	Finite Element Analysis of Back-To-Back Mechanically Stabilized Earth Wall.by K. A. Aboorvaraj, Dr. P.V. Premalatha, A.Karthikeyan

15:20 - 15:30	TH-07-032	Multi-approach Global Stability Assessment of Soil Nail Walls by Vikas Pratap Singh
15:30 - 15:40	TH-07-034	Study on Design of Reinforced Earth Retaining wall with Copper slag as Fill material by C.N.V. Satyanarayana Reddy, R. Dhanunjaya Kumar Reddy and M. Nagalakshmi
15:40 - 15:50	TH-06-056	Geomechanical Properties of a Lunar Soil Simulant Developed From Terrestrial Anorthosite Rocks by Prabu Thannasi, Venugopal Indaram, Muthukkumaran Kasinathan
15:50 - 16:00	Q & A Session	
14:00 -16:00	Venue: A11 Hall Theme 08 - Slope Stability and Landslides	
Session Coordinator: Dr. N. Kumar Pitchumani, AECOM Chennai		
Chairman: Prof. J. Jayamohan, Thiruvananthapuram		
Co-Chairman: Dr. S.V. Sivapriya, SSN Chennai		
14:00 - 14:10	TH-08-028	A Concise Review of State of the Art on Landslide Monitoring and Warning System in India by Shikha Sharma, Bipin Kumar Gautam, Naresh Mali, K V Uday
14:10 - 14:20	TH-08-029	Optimum Thickness of Veneer Cover Soil of MSW landfill for Stability Against Uplifted-Floating Failure by Soujanya Dabburu
14:20 - 14:30	TH-08-030	A Comprehensive Review on Rainfall Induced Slope Failures: Mechanism, Models and Influencing Factors by Vineet Gajamer, Abhishek Kumar
14:30 - 14:40	TH-08-032	Detection, Monitoring, and Early-Warning of Landslides using In-Situ Ground-based Monitoring Techniques: A Review by Shreya Maheshwari, Riya Bhowmik
14:40 - 14:50	TH-08-035	Response of Isolated Shallow Footing on Sloping Ground under Dynamic Loading by Saumitro Mandal, Aniket Chanda, Arghadeep Biswas
14:50 - 15:00	TH-08-036	Effect of antecedent uniform rainfall pattern on stability of a typical north eastern slope by Sreeram Shruthija, Dr.Sudheer Kumar
15:00 - 15:10	TH-08-042	Effect of Hysteretic SWCC on Marappalam Rainfall Triggered Slope Failure by Nallabothula Mounika
15:10 - 15:20	TH-08-045	Restoration Measures of Landslide Affected Valley Slope - A Case Study of Tindharia Area along NH 55 in West Bengal by Avik Kumar Mandal, Sailesh S, Pradyot Biswas & Atanu Adhikari
15:20 - 15:30	TH-08-048	Living Soil Nails to Prevent Shallow Landslides in Lateritic Soil Slopes by Anand Praveen. D. and Divya P.V
15:30 - 15:40	TH-08-052	Stability Analysis of Over Burden Dump Slope – A Case Study of Marki Mangli - I Coal Mine by S S Geete, K H Singh, A K Verma, T N Singh
15:40 - 15:50	TH-11-048	Evaluation of Compactive Parameters of Soil using Machine Learning by Jitendra Khatti
15:50 - 16:00	TH-11-046	Numerical Study of Tapered pile Subjected to Cyclic Loading by Anuj Kumar Soni, Mohit Kumar, Sushil Kumar, Vishal Kumar, Muthukkumaran Kasinathan, Prabu Thannasi

14:00 -16:00	Venue: A12 Hall Theme 11 - Computational, Analytical and Numerical Modelling	
Session Coordinator: Prof. Subhadeep Banarjee, IIT Madras Chairman: Prof. P.D. Arumairaj, IGS Coimbatore Co-Chairman: Dr. Shruti Shukla, NIT Surat		
14:00 - 14:10	TH-11-020	Simplified Plane Strain Consolidation Modeling of Stone Column by Puspendu Ray, Dr. Ambarish Ghosh, Dr. Dipankana Bhattacharjee
14:10 - 14:20	TH-11-021	An ANN Model to Analyze the Load-Settlement Characteristics of Bottom Ash Reinforced With Geocell Matters by Swamini Das, Somenath Mondal, Anil Kumar Choudhary
14:20 - 14:30	TH-11-023	Numerical Study on Uplift Capacity of Helical Pile in Layered Soil by Vijayakumar S, Muttharam M
14:30 - 14:40	TH-11-024	Finite Element modelling of one dimensional consolidation of soft clays using ABAQUS by A S Kasyap Vasudevan, Dr. Sridhar G
14:40 - 14:50	TH-11-029	3D Numerical Analysis of Screw Pile Subjected to Axial Compressive and Lateral Load by P. V. Pavan Kumar, Shantanu Patra, Sumanta Halder, Michael John Brown, Jonathan Adam Knappett, Yaseen Umar Sharif
14:50 - 15:00	TH-11-031	Study on the Influence of Inclined Loads on the Behavior of Piles by Sai Manasa Chirlam Charla, Teja Munaga, Kalyan Kumar Gonavaram
15:00 - 15:10	TH-11-035	Hydraulic Conductivity of Fly Ash - Bentonite Mixture Exposed to Salt Solutions: ANN Model and Sensitivity Analysis by Suvendu Kumar Sasmal, Anjali Jayadas K, G Suneel Kumar, Rabi Narayan Behera
15:10 - 15:20	TH-11-036	Prediction of Strength Parameters of Fiber Reinforced Soil Using Machine Learning Algorithms by Sujatha Evangelin Ramani
15:20 - 15:30	TH-11-037	Analytical and Numerical Modelling of Combined Pile-Raft Foundation for Tall Wind Turbine in Various Soils by Nirajan Gaihre, Prabir. K. Kolay, Vijay. K. Puri, and Sanjeev Kumar
15:30 - 15:40	TH-11-042	Seepage Analysis of Resilient Rubble Mound Breakwater Under Tsunami Overflow: Numerically Analyses by Manu K Sajan, Babloo Chaudhary
15:40 - 16:00	Q & A Session	
14:00 -16:00	Venue: A13 Hall Theme 04 - 08	
Session Coordinator: Dr. B. Soundara, BIT, Sathy Chairman: Dr. B. Hanumantha Rao, IIT Bhubaneswar Co-Chairman: Dr. P.V. Premalatha, Oxford Trichy		
14:00 - 14:10	TH-01-030	Electrical Resistivity Based Characterization of Geotechnical Properties of Mine Tailing by Vaishali Wayal, T.G. Sitharam, Gali Madhavi Latha
14:10 - 14:20	TH-01-043	Effect of Remolding Water Content on Hydraulic Response of a Compacted Expansive Soil by M. Julina & T. Thyagaraj
14:20 - 14:30	TH-05-028	Investigation of Soil Characteristics in and around the Open Dump Site Near Sathyamangalam Town in Erode District by Geethamani R, Soundara B, Kanmani S
14:30 - 14:40	TH-14-028	A Comparative study of undrained shear strength of offshore cohesive soils by different methods by Chikkanna.T, C.R Parthasarathy, Prashanth talkad

14:40 - 14:50	TH-04-092	Analysis of a Soil Structure Interaction Model Using SAP 2000 by MD Firoz Ali, Dr. Supia Khatun, Abraham Lincoln
14:50 - 15:00	TH-04-101	Improvisation in the swelling behavior of expansive soil using industrial waste by Devahi P, Deendayal R, and Muthukkumaran K
15:00 - 15:10	TH-04-104	Influence of Radial Coefficient of Consolidation on Influence of Radial Coefficient of Consolidation on Ground Improvement in Soft Clay with Vertical Drains by C.N.V.Satyanarayana Reddy, G.V.S.S. Sankarnarayana and R.Sai Chandu
15:10 - 15:20	TH-10-015	Behaviour of Back-to-back Wrapped Around Walls with Full Height Rigid Facing Walls for High-Speed Rail Applications by Vamsi Krishna Kadagana, Sasanka Mouli Sravanam, Umashankar Balunaini
15:20 - 15:30	TH-10-016	Shear Behavior of Geosynthetic Reinforced Landfill Clay Cover Barrier Under Different Loading Conditions by Akshit Mittal and Amit Kumar Shrivastava
15:30 - 15:40	TH-14-020	Reuse of Demolished old Brick Powder in Brick Making by Sarojini P, Dr. G. V. Ramana, Dr. V. Ramana Murthy
15:40 - 15:50	TH-07-001	Restoration of Breached Ash Dyke Embankment in Constrained Site Conditions by Vinod Kumar Mauriya
15:50 - 16:00	Q & A Session	
16:00 - 16:10	Tea Break	
16:10 - 17:55	Venue: BARN Hall Plenary Session 6	
Session Coordinator: Dr. Anil Joseph, Geotechnicals, Cochin		
Chairman: Prof. Gopal Madabhushi, University of Cambridge, UK		
Co-Chairman: Prof. Krishnan Balan, VP, RIET, Trivandrum		
16:10 - 16:45	Keynote Lecture 16	Response of Helical Piles To Dynamic Loading by Prof. Hesham El Naggar, Western University, Canada (6:40 a.m., Nova Scotia-Canada)
16:45 - 17:20	Keynote Lecture 17	Use of Artificial Intelligence Methods as a Tool in the Prediction of the Soil Water Characteristic Curves by Prof. Sai Vanapalli, University of Ottawa, Canada (6:15 a.m., Ottawa-Canada)
17:20 - 17:55	Keynote Lecture 18	Electrobioremediation: Coupled Electrokinetics and Bioremediation for Contaminated Site Remediation by Prof. Krishna Reddy, University of Illinois Chicago, USA (5:50 a.m., Chicago-USA)
18:00 - 19:00	Valedictory session (You Tube Live Stream Link: https://youtu.be/ttdfStBAyIY)	

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