

# EIGHTH INDIAN YOUNG GEOTECHNICAL ENGINEERS CONFERENCE 2021 (8IYGEC 2021)

21-Oct-21		<b>DAY 1 - 21<sup>st</sup> October 2021 (Thursday)</b>					
Thursday		Virtual Mode					
09:15	09:45	<b>Inaugural Ceremony</b>					
10:00	11:20	<b>Plenary Session I</b>					
		<b>Chair- Prof. Stalin, CEG, Anna University</b>					
		<b>Co-Chair- Dr. V. B. Maji, IIT Madras</b>					
10:00	10:40	<b>Keynote Lecture I</b>					
Title: DEM Studies on the Behaviour of Granular Materials During Cyclic Loading							
Dr. J. S. Vinod, University of Wollongong, Australia							
10:40	11:20	<b>Keynote Lecture II</b>					
Title: Stress-Strain Response of Unsaturated Soils							
Dr. Rajesh Sathiyamoorthy, IIT Kanpur							
11:20		Tea Break					
11:30	13:00	<b>Technical Session 1</b>		<b>Technical Session 2</b>		<b>Technical Session 3</b>	
		<b>Chair- Prof. G. Madhavi Latha, IISc Bangalore</b>		<b>Chair- Prof. M. Muttharam, CEG Anna Univ., Chennai</b>		<b>Chair- Prof. Deepankar Choudhury, IIT Bombay</b>	
		<b>Co- Chair- Dr. Ramesh Kannan K, IIT Madras</b>		<b>Co- Chair- Dr. B. Janaki Ramaiah, IIT Tirupati</b>		<b>Co- Chair- Dr. Chandrasekhar Annavarapu, IIT Madras</b>	
11:30	12:00	<b>Theme lecture I</b>		<b>Theme lecture II</b>		<b>Theme Lecture III</b>	
		Post-grouted Deep Foundations: Individual and Group Responses		Sorpitive and Desorpitive Response of Divalent Heavy Metal Ions from EICP treated Plastic Fines		Stability Analysis of Rock and Debris Slopes: Field Investigation, Laboratory Experiments and Numerical Modelling	
		<b>Dr. Sudheesh T. K., IIT Palakkad</b>		<b>Dr. Arif Ali Baig Moghal, NIT Warangal</b>		<b>Dr. Anindya Pain, CBRI, Roorkee</b>	
		<b>Theme-4 - Ground Improvement</b>		<b>Theme-6 - Geoenvironmental Engineering</b>		<b>Theme-7 - Slope Stability and Landslides</b>	
12:00	12:10	TH-4-1	Distribution and Sharing of Load for Partially Strengthened Floating Granular Piled Raft- <i>Ashish Solanki, Raksha Rani Sanadhya and Jitendra Kumar Sharma</i>	TH-6-17	Comparative Life Cycle Assessment of Subballast layer with Natural and Coal Overburden aggregates in India-Dhanasree Suresh and Sowmiya Chawla	TH-7-12	SLOPE STABILITY AND LANDSLIDE ANALYSIS: A CASE STUDY IN COORG Malluraj Channappa Hitni, Mysuru R Yadupathi Putty and Anand M Hulagabali
12:10	12:20	TH-4-13	Experimental Investigations on Sand Bed Reinforced With Sustainable Polypropylene and Natural Materials-Faizanjunaid Mohammed, Andal Mudimby and Sasanka Mouli Sravanam.	TH-6-42	Influence of relative humidity gradients on the behavior of residual soils-Monica Rekapalli	TH-7-20	Early Warning System For Shallow Landslides In Idukki, Using Slope Stability Analysis And Rainfall Threshold Equation J M Sachin Mithra, V Keerthana, Rahul Raj, K B Aswathy and Basil Jaimon
12:20	12:30	TH-4-19	Load-Settlement Behavior Of Granular Pile In Expansive Soil-Ajit Barik, Benazeer Sultana and Nibedita Nayak	TH-6-49	Veneer Cover Seismic Stability against Direct-Slip Failure by Pseudo-Static Method-Dabbiru Soujanya and B Munwar Basha.	TH-7-38	Analysis of Soil Nailing on Slope Stability and the Effect of Nail Inclination and Nail Spacing on Global Factor of Safety Malik Yawar Hayat and Siddhartha Sengupta
12:30	12:40	TH-4-22	A Study on the Performance of 3D Geogrid Reinforced Sand Under Repeated Loading-N Avinash, S Gangadhara and K S Lakshmisha	TH-6-83	Phytoremediation for Stabilization of Coalmine Overburden Dumps: Present Status-Ashutosh Kumar, Sarat Kumar Das, Lohitkumar Nainegali and Krishna R. Reddy.	TH-7-39	Stabilization of Slopes Subjected to Seepage Forces Using Numerical Techniques Abhishek Kumar Singh and Siddhartha Sengupta
12:40	12:50	TH-4-23	SWELLING CHARACTERSITCS OF BIOENZYME STABILIZED BLACK COTTON SOIL-Sindhu Malipatil and Gangadhara S	TH-6-84	Hydraulic and Volume Change Behaviour of Water Absorbing Polymer Amended Granular Bentonite under Chemo – Mechanical Loadings-Himanshu Yadav and T.V. Bharat.	TH-7-47	Model Studies of Bearing Capacity of Strip Footings Rested On Slope Crest Sourav Roy and Nirmali Borthakur.
12:50	13:00	TH-4-25	Engineering Properties of Controlled Low Strength Material (CLSM) Using Industrial Wastes - An Overview-Dhivya R and Soundara B.	TH-6-149	Modeling contaminant migration through partially saturated composite liner the beneath landfill-Akansha Srivastava and Rajesh Sathiyamoorthy.	TH-7-51	SLOPE STABILITY ASSESSMENT OF HIGHWAY EMBANKMENT FOR DIFFERENT SEISMIC ZONES OF INDIA Sumanth H C and Govindaraju L
13:00		Lunch break					

14:00	15:30	Technical Session 4		Technical Session 5		Technical Session 6	
		Chair- Dr. D. Neelima Satyam, IIT Indore		Chair - Prof. Dali Naidu Arnepalli, IIT Madras		Chair- Dr. P. Anbazhagan, IISc Bangalore	
		Co- Chair- Dr. Rakesh J. Pillai, IIT Palakkad		Co- Chair- Dr. S.V. Sivapriya, SSN, Chennai		Co- Chair- Dr. Tarun Naskar, IIT Madras	
		Theme-4 - Ground Improvement		Theme-6 - Geoenvironmental Engineering		Theme-7 - Slope Stability and Landslides	
14:00	14:10	TH-4-34	EXPERIMENTAL INVESTIGATION ON SOIL STABILIZED WITH CORN COB ASH AND SEA SHELL POWDER-Anto Lazar and Mary Rebekah Sharmila.	TH-6-182	Hydraulic Conductivity of Compacted Clay Liners Subjected to Alternate Wet-Dry Cycles-Devapriya A.S and Thyagaraj T.	TH-7-52	A Case Study on Ground slope instability analysis triggered due to Rainfall through limit equilibrium method G P Veeranna and P.G.Rakaraddi.
14:10	14:20	TH-4-35	Effect of soil reinforcement using geotextile on uplift capacity of shallow foundation-Ashwani Valse and M.V.S. Sreedhar.	TH-6-218	POND ASH - A COMPONENT IN COMPOSITE LANDFILL LINER-Bidula Bose, Sudeep Kumar Chand and Maheswar Maharana	TH-7-54	Analysis of Homogeneous Slopes using Slope/W for Different Boundary Conditions Utsav Vora, Deepakshi Paliwal, Jigisha Vashi and Babu Sundararaman
14:20	14:30	TH-4-37	A State of Art Review on Different Methods of Soft Soil Subgrade Stabilization-Uzma Azim and Siddhartha Sengupta.	TH-6-219	Shear strength and surface damage characteristics of sand-GCL interfaces-Anjali Pillai and Madhavi Latha Gali	TH-7-67	Performance of compacted lateritic soil embankments during extreme rainfall Aarya Krishna and Divya Pv.
14:30	14:40	TH-4-62	Estimation Of Compressive Strength Of Glass Fiber Reinforced Expansive Soil In Alkali Activated Binder By An Artificial Neural Network Based Model-Mazhar Syed, Anasua Guharay, Hrishikesh	TH-6-220	Effect of initial placement conditions on the swell and hydraulic behaviour of compacted clay-sand mixtures during wet-dry cycles-Sabari Ramesh and Thyagaraj T.	TH-7-70	Influence of Plastic Deformation and Soil Arching on Stability Soil Slopes Reinforced with Piles Pratik Chaudhary, B Munwar Basha and Raghuram Ammavajjala Sesha Sai.
14:40	14:50	TH-4-63	MODELLING OF RESILIENT MODULUS OF LIME STABILISED BLACK COTTON SOIL USING ARTIFICIAL NEURAL NETWORKS AND MULTIPLE REGRESSION METHOD-Reshma K	TH-6-231	Microbial Characterization of Soil and Biochar Amended Soil in Landfill Cover-Jyoti Khatri Chetri and Krishna Reddy.	TH-7-73	Literature Review On Interaction Analysis Of Building Resting On Sloping Ground Dulganti Dheeraj Reddy and Pallavi Badry
14:50	15:00	TH-4-64	Stabilization of Black Cotton Soil with Calcium Carbide Residue (CCR) and Fly Ash for its use in Pavement Subgrade-Manukonda Surya Kumari and B.R.Phani Kumar	TH-6-244	Comparison of Single Bacterial Strain Versus Multi Bacterial Strains on MICP-Meghna Sharma, Neelima Satyam and Krishna R. Reddy	TH-7-107	Influence of Water Table, Cohesion, Friction angle and Soil nailing on Slope Stability Sana A and Glory Joseph
15:00	15:10	TH-4-65	Influence of Fly Ash Content and CaCl <sub>2</sub> Concentration on Index Properties of Fly Ash Stabilized-Expansive Clay Liners-Manukonda Surya Kumari, M. Uma Shankar and B. R. Phanikumar	TH-6-257	Analysis of one-dimensional Contaminant Transport Through Porous Media-Ankita Sawai and S Rupali.	TH-7-130	Effect of Embankment Raising Rate and Beach Widths on the Stability of Embankment for the Tailings Pond Surender Singh, Abhishek Kumar and T.G. Sitharam.
15:10	15:20	TH-4-78	SHEAR STRENGTH OF STABILIZED EXPANSIVE CLAY USING COCONUT SHELL ASH-Saran Kumar S and Karthigeyan S	TH-6-261	Role of Physical Characteristics of Municipal Solid Wastes for Landfill Design-Mukuntha Raja V, Senthil M.S and Suresh E.S.M.	TH-7-135	TUNNELLING INDUCED LANDSLIDES: CAUSES AND CONCERNS Malavika Varma and K.S. Beena.
15:20	15:30	TH-4-80	Sustainable Utilization of Magnesia Activated Blast Furnace Slag in Non-Fired Stabilized Earthen Blocks-A. Sandeep Reddy and Ch. Rama Vara Prasad.	TH-6-272	Life cycle assessment of Fly ash and Ferrochrome slag as Geo materials in construction-Kurmana Sandeep, Anshumali Mishra and Sarat Kumar Das	TH-7-137	KINEMATIC ANALYSIS OF REINFORCED C - $\phi$ SOIL WALL - LINEAR BACKFILL RESPONSE M C Venkatasubbaiah and G V Narasimha Reddy.
15:30	16:00	Coffee/Tea break					
16:00	17:30	Technical Session 7		Technical Session 8		Technical Session 9	
		Chair- Prof. K. Muthukkumaran, NIT Trichy		Chair- Prof. S. Dasaka Murty, IIT Bombay		Chair- Prof. Subhadeep Banerjee, IIT Madras	
		Co- Chair- Dr. Vishwas Khatri, IIT Dhanbad		Co- Chair- Prof. G. Sridevi, BVRIT, Hyderabad		Co- Chair- Er. G. Srinivasa Rao, Saipem, Chennai	
		Theme-4 - Ground Improvement		Theme-1 - Behaviour of Saturated and Unsaturated Geomaterials		Theme-7 - Slope Stability and Landslides	
15:50	16:00	TH-4-89	HYPERBOLIC AND HARDENING SOIL MODEL PARAMETERS FOR GEOGRID REINFORCED STEEL SLAG-Sanjana Sarkar and Amamath Hegde	TH-1-55	Effect of Suction and Rainfall Characteristics on Slope Stability: A Case Study of Idukki Slope Failure-Sesha Sai Raghuram Ammavajjala and B Munwar Basha.	TH-7-156	Slope stability prediction based on multi objective feature section and Random Forest techniques Satyam Tiwari, Prakhar and Sarat Kumar Das.
16:00	16:10	TH-4-91	Sustainability analysis of an arbitrary embankment on soft soil stabilized with stone columns-Soumya Sajju and Bindu J.	TH-1-128	Effectiveness of Methylene Blue Value Test to Assess the Modification in Calcium Carbide Residue Treated Clayey Subgrade Soil- Sharanya A G, Heeralal M and Thyagaraj T.	TH-7-159	Stability of Isolated Shallow Footing on Slope under Dynamic Loading Saumitro Mandal, Aniket Chanda and Arghadeep Biswas
16:10	16:20	TH-4-93	EFFECT OF ADDITIVES ON COEFFICIENT OF CONSOLIDATION OF COCHIN MARINE CLAY-Asika Johny, Sherine Justine, Benny Mathews Abraham and A. Sridharan.	TH-1-141	Effect of Submergence on the Bearing Capacity of Geosynthetic Reinforced Sand Bed -Naresh Kothapally and M.V.S Sreedhar.	TH-7-173	NUMERICAL, ANN, AND MLR MODELLING FOR STABILITY ANALYSIS OF COAL MINE OVERBURDEN DUMP Tarun Kumar Rajak, Laxmikant Yadu and Mohammad Parvej Alam.
16:20	16:30	TH-4-95	FFECT OF SUCHARGE DURING CURING ON CEMENT STABILISED COCHIN MARINE CLAY-Rija Johny, Rosin Cyriac and Benny Mathews Abraham	TH-1-150	Comparison of Methods for Quantification of Desiccation Cracks in Compacted Clay Soils -Julina M and Thyagaraj T	TH-7-178	Bioinspired Frictional Anisotropy for Geotechnical Engineering Applications Gayathri Venu Latha and Prashanth Vangla
16:30	16:40	TH-4-98	Study on the Improvement of Clayey Soil Stabilized with PMMA (Poly Methyl Metha Acrylate)-Anindita Rongpipi, Seema Kumari and Gayatri Das.	TH-1-151	New Classification System of Correlating Compressibility and Expansivity of Clay-Vijaya Raj S and Stalin V K.	TH-7-201	Rainfall Induced Landslide Analysis of Coonoor Region in Nilgiris District using TRIGRS M Sumesh, P Sai Sindhu, Sarma Chiranjib Prasad, Roshan Srivastav and A Murali Krishna.

16:40	16:50	TH-4-102	UTILIZATION OF AN INDUSTRIAL WASTE FOR SOFT CLAY STABILIZATION-Merin Kuriakose, Athira K Narayanan, Benny Mathews Abraham and Sobha Cyrus.	TH-1-153	Collapse and Permeability behavior of Unsaturated Fly ash- Akriti Kothiala, Shivani Grewal and K.V. Uday	TH-7-222	Stability Analysis of Concave Slope using Finite Element Method A. V. R. Karthik, Regunta Manideep and Jitesh T. Chavda
16:50	17:00	TH-4-125	Instrumentation for Ground Improvement Using PVD and Surcharge on Soft Clay – Case Study.-Abhijeet Kanungo and Angeline Getrude Nancy A.	TH-1-207	STUDY ON ENHANCEMENT OF THAMARACHAL CLAY AND ITS UTILIZATION IN BRICK MAKING-Allen Mathew, Hanna C Joshy, Simon J Maramangalam, Sreya Jose, Amal Azad Sahib and	TH-7-288	Landslide Mitigation Through Vetiver Grass Rinitha P., Akshay S Aravindh, Athul J, Sruthy V S and Aswanth A
17:00	17:10	TH-4-132	Study on Effect of Milled Palm Oil Fuel Ash in Expansive Soil Stabilisation-Jayaraman M, Ravichandran P.T and Divya Krishnan K.	TH-1-264	Load Capacity of a Footing on an Unsaturated Soil Slope Considering Stress Dependent SWCC -Chidanand M Jadar, Sathiyamoorthy Rajesh and Suman Roy	TH-7-307	A numerical study on road embankment stabilized with banana fibre geotextiles-Dhivya S, Chezhiyan S, Dhaejeshwar K. R. and G. D. Nighil Reddy
17:10	17:20	TH-4-158	Review of Unit Cell Concept in the Design of Ground Improvement Techniques-Angshuman Das and Subhadeep Banerjee	TH-4-273	Assessing the Performance of Vibro Compaction in Calcareous Sand- Anurag Chafale and Madan Kumar Annam		
17:20	17:30	TH-4-85	Performance of Alkali-activated Fly ash as a Binder in Deep Soil Mixing Columns in High Plastic Clays-Mypati Vamsi Navya Krishna and Saride Sireesh	TH-4-295	Strength Characteristics Of Fine Sand Reinforced With Polypropylene Fiber-Rakesh Pydi and Rakesh Pydi		
17:30	17:40	TH-4-239	RETROFITTING OF WORKSHOP FLOOR WITH MICROPILES-Neru Prasad V K, Haridharan G, Janardhanan G and Dinesh Kumar K S A	TH-4-301	Strength of Egg Shell Ash Amended Optimum Lime Content Stabilized Expansive Soil-Sushritha G and Jijo James.		

# EIGHTH INDIAN YOUNG GEOTECHNICAL ENGINEERS CONFERENCE 2021 (8IYGEC 2021)

22-Oct-21		DAY 2 - 22 <sup>nd</sup> October 2021 (Friday)					
Friday		Virtual Mode					
10:00	11:20	Plenary Session II					
		Chair- Prof. K. Premalatha, CEG Anna University, Chennai					
		Co-Chair- Er. Hari Krishna, Keller Ground Engineering India Pvt., Chennai					
10:00	10:40	Keynote Lecture III					
Title: Computational Geotechnics in the Age of Climate Change							
Dr. William Cheang, Bentley Geotechnical Engineering, Singapore							
10:40	11:20	Keynote Lecture IV					
Title: Applications of X-ray Computed Tomography on Quantifying Fabric, and a New Paradigm to Understand Fabric in Sands							
Dr. Tejas G Murthy, IISc Bangalore							
11:20	11:30	Tea Break					
11:30	13:00	Technical Session 10		Technical Session 11		Technical Session 12	
		Chair- Dr. N. Kumar Pitchumani, AECOM, Chennai		Chair- Prof. Vasanthi Padmanabhan, Crescent University		Chair- Prof. Sireesh Saride, IIT Hyderabad	
		Co- Chair- Er. Vetrivelvan, L&T Geo., Chennai		Co- Chair- Dr. Kodi Rangaswamy, NITC		Co- Chair- Dr. K. Ravi IIT Guwahati	
11:30	12:00	Theme lecture IV		Theme lecture V		Theme Lecture VI	
		First Order and Second Order Reliability Analysis of Rainfall Induced Kotropi Slope Failure, Himachal Pradesh,		Performance Evaluation of Micro Pile Reinforced Existing Railway Tracks Under Static and Moving Loads		Internally Driven Piles	
		Dr. Munwar B. Basha, IIT Hyderabad		Dr. Sowmiya Chawla, IIT (ISM) Dhanbad		Dr. J. Jasmine Nisha, Dow Chemicals Int. Pvt. Ltd., Chennai	
		Theme 12- Reliability in geotechnical Engineering		Theme-10 Transportation Geotechnics		Theme-2-Foundation Engineering	
12:00	12:10	TH-12-66	Reliability Study of Cantilever Sheet Pile Coupled with Limit Equilibrium & Finite Element Approaches-Siddhardha R, Jitha M R and Kalyan Kumar Gonavaram	TH-10-46	Numerical Analysis of Dynamic Response of Flexible Pavements Reinforced With Recycled Rubber And Natural Jute Fibers-Neetu G Kumar and Sayida M. K.	TH-2-32	Simple Method for the Estimation of Bearing Capacity of Footings on Non-homogeneous Ground-J Y V Shiva Bhushan, Madhav Madhira and G V Narasimha Reddy
12:10	12:20	TH-12-81	Influence of Geotechnical Parameters on Construction Aspects of Highway Projects-Ch V S Chiranjeevi and Nr Krishnamurthy.	TH-10-69	Numerical Analysis to Study the Performance of Natural and Synthetic Geotextiles in Pavements under Dynamic Loading-Archa R and Sayida M.K.	TH-2-33	Development of Design Aids for Forge Hammer Foundation-Jasira Pazhaya Thoppu, R Anjusha and S. Chandrakaran
12:20	12:30	TH-12-134	External stability analysis of reinforced wall using surrogate based probabilistic model-Ekansh Agarwal and Anindya Pain.	TH-10-88	Coir Basalt Geocomposite - A Novel Reinforcing Material for Pavements-Ifrath K Maitheen, C.S Bindu and K.S Beena.	TH-2-57	Behavior of horizontally loaded piles inserted in layered soil with cavities-Aya Abuo Zenab and Swagatika Senapati
12:30	12:40	TH-12-199	Implementation of stochastic method in quantifying the uncertainties associated with strip footing stability-Saikat Kuili and Ravi S. Jakka	TH-10-92	Correlation of Resilient Modulus with Shear Strength for Cemented Coal Ash-Anu Jose, R. G Robinson and J Murali Krishnan	TH-2-59	Three Dimensional Numerical Study of Large Piled Raft Foundations-Rajib Modak and Baleshwar Singh.
12:40	12:50	TH-12-284	Reliability analysis of shallow foundation.-Manish Kumar, Maneesha G, G Sai Kumar Reddy, Mahesh M, Saibaba A and Vinay Kumar.	TH-10-115	Drainage characteristics of geocomposite in pavement layers-Huchegowda Bk and Sireesh Saride	TH-2-60	Comparison of PUF barrier reinforcement and Skirted ground reinforcement techniques in liquefiable soils under repeated loading events-S P Vijay Kumar and S Ganesh Kumar
12:50	13:00	TH-9-5	Numerical Study On Free Field Vibrations Due To Pile Driving Activities-Shashank Mukkoti, Srinivasan Venkatraman and Mainak Majumder	TH-10-154	Applicability of Marginal Materials as base and sub-base course in Flexible Pavement - A Review-Jayalekshmi S and Rahul R Pai	TH-2-76	Numerical Study on Uplift Capacity of Helical Pile in Layered Soil-Vijayakumar S and Muttharam M
13:00		14:00		Lunch break			

14:00	15:30	Technical Session 13		Technical Session 14		Technical Session 15	
		Chair- Dr. Anil Joseph, Geotechnical, Cochin		Chair - Dr. Ravi S. Jakka, IIT Roorkee		Chair- Dr. C. R. Parthasarathy, SGES, Bangalore	
		Co- Chair- Dr. Amarnath Hegde, IIT Patna		Co- Chair- Dr. G. Kalyan Kumar, NIT Warangal		Co- Chair- Dr. Divya P. V., IIT Palakkad	
14:00	14:10	TH-9-14	ARCHING PHENOMENA IN BACK TO BACK RETAINING WALLS-Krishnakarthika Gorla, Sasanka Mouli Sravanam and Madhav Madhira	TH-10-172	Performance Comparison of Reclaimed Asphalt Pavement Material with Geosynthetic Reinforcement for Base Layers-Amit Shaw, Gottumukkala Bharath, Pulikanti Prasad and Guruvittal.	TH-2-77	UPLIFT CAPACITY OF THE FOOTING RESTING ON MICRO PILE STABILIZED EXPANSIVE CLAY-Suresh Kumar S and Karyhigeyan S.
14:10	14:20	TH-9-15	Effect of Elastic Strain in the Plastic Zone on Cavity Expansion Pressure in Sand-Alpha Lukose and Sudheesh Thiyyakkandi.	TH-10-176	Review on Geotechnical Aspects of Pervious Pavement Systems-Konichetti Vinay and Muthukumar M	TH-2-142	Behavior of Large Piled-Raft Foundations on Sandy Soil based on Load Sharing Mechanism-Banchiva Marak and Baleshwar Singh
14:20	14:30	TH-9-112	Analysis of Lateral Loading of Single Pile and Group Piles using Plaxis 3D-Kummari Sekhar and D. Kishan.	TH-10-223	Behavior of Back-to-back Wrapped Around Walls with and without Full Height Rigid Facings Under Surcharge Loading-Vamsi Krishna Kadagana, Sasanka Mouli Sravanam and Umashankar Balunaini.	TH-2-148	Numerical Analysis of Piled Raft Foundation-Swapnil Rawate and Vivek Deshmukh
14:30	14:40	TH-9-175	Effect of particle size to specimen size ratio on direct shear response: A 3D X-ray CT point of view-Lalit Kandpal, Prashanth Vangla and Satoshi Matsumura	TH-10-228	Analysis of geogrid reinforced flexible pavement using Plaxis 2D-Sivaprakash G, Jayaraman M, Bhuvaneshwari S and Padmarekha A.	TH-2-160	Numerical Analysis of Single Helical Pile Subjected to Combined Loading-Vignesh Venkatesan and Muthukumar M.
14:40	14:50	TH-9-186	Effect of particle gradation on the constriction size distribution-Neeraj Pulaganti, Ramesh Kannan Kandasami	TH-10-245	Numerical Analysis of Geosynthetic Reinforced Soil-Integrated Bridge System-Sai Pratheek Konduru and Umashankar Balunaini	TH-2-162	Pile-Performance Influenced by Super-structural Symmetry and Dynamic Loading-Aniket Chanda, Saumitro Mandal and Arghadeep Biswas
14:50	15:00	TH-9-203	QUANTIFICATION OF 3D SURFACE ROUGHNESS OF SAND PARTICLES-Rizwan Khan and Madhavi Latha Gali	TH-10-250	Effects of utilization of waste plastic bottles cell on CBR values of poor cohesive subgrade soil.-Barsha Supriya	TH-2-183	Behavior of Anchor Plates in Reinforced Soft Clay Subjected to Cyclic Loading-Ravi Shankar S, Subhadeep Banerjee and Jagdish Biradar
15:00	15:10	TH-9-217	Numerical Analysis of Geosynthetic Reinforced Soil Bridge Abutment using Fly Ash as Backfill Material under Dynamic Loading-Kunjan Saikia and Shantanu Patra.	TH-10-259	Slope Stability Analysis of Belagavi National Highway And Its Mitigation-Soumyashri Patil.	TH-2-184	IDENTIFICATION AND QUANTIFICATION OF PARAMETERS INFLUENCING THE BEHAVIOR OF PILED RAFT FOUNDATION IN LAYERED SAND-Sivananda Reddy Kovvuru, Eswara Prasad C R and
15:10	15:20	TH-9-230	ASSESSMENT OF BEARING CAPACITY OF SOIL FROM PLAXIS Theme: Computational Geomechanics-Yathish Patel R and Dr S K Prasad	TH-8-8	Influence of dynamic excitation levels on piled raft foundation with superstructure.-Gayathri R and Kodi Rangaswamy	TH-2-194	Computational study on the drilling fluid influence on the concrete flow in piling operation-Jaganmuthu S, Janardhanan G and Jacob Immanuel S
15:20	15:30	TH-9-236	Viscoplastic modelling of soft sensitive soil-Balaji Bandaru and Rakesh Pillai.	TH-8-10	Liquefaction and Stability analysis of Earth Embankment Structure-Neetha Prabhakar and Kodi Rangaswamy	TH-2-196	Estimation of Carbon footprint during piling operation-Praveen Kumar R and Janardhanan G
15:30	16:00	Coffee/Tea break					
16:00	17:30	Technical Session 16		Technical Session 17		Technical Session 18	
		Chair- Prof. Umashankar B, IIT Hyderabad		Chair- Dr. J. C. Shukla, Geo Dynamics, Vadodara		Chair- Dr. Kumar Venkatesh, MNNIT, Allahabad	
		Co- Chair- Dr. Vangla Prashanth, IIT Delhi		Co- Chair- Dr. Jitesh T. Chavda, NIT Surat		Co- Chair- Dr. Deendayal Rathod, NIT Trichy	
15:50	16:00	TH-9-243	Numerical Modelling of Geocell Reinforced Sand in Triaxial Compression-Prerana Krishnaraj, Madhavi Latha Gali and Sitharam T G	TH-8-21	Assessment of Underground Structure- Soil Interaction under Dynamic Conditions through Shaking Table Testing-Amith K S and Ganesh Kumar S.	TH-2-221	Influence of Granular Cushion on the Performance of Disconnected Piled Raft-Prasun Halder and Bappadiya Manna
16:00	16:10	TH-9-252	Numerical Modelling of Performance of Shallow Foundation Augmented with Bio-Inspired Techniques-Aravind Murali, Godson M D and Bhuvaneshwari S	TH-8-24	Equivalent linear Ground Response Analysis of Kunnamangalam Region soil deposits in Calicut of Kerala-P G Abhishek and Kodi Rangaswamy	TH-3-28	Validation of empirical approach of tunnel support design using 3D modelling-Gurusamy K, Abhishek Patel and Sreedeeep S
16:10	16:20	TH-9-265	Free Field Plane Strain Simulation of Soil Liquefaction using Finite Element Analysis-Tanmay Gupta and Madan Kumar Annam.	TH-8-41	A Review on Dynamic Soil Pile Interaction of Laterally Loaded Piles Kiran Rathod, Teja Munaga and Kalyan Kumar Gonavaram	TH-11-75	Static Analysis Of Tunnel With Different Cross-Sections In Stratified Soil Condition-Naresh Neerati, Prudviraj Vennampally, Sravani Bairoju, Jayasri Lavudi, Kishore Samala and Pallavi Badry.
16:20	16:30	TH-9-308	Effect of Rotational springs on foundation response of a Three Dimensional Finite Element Model-Shilpa Dixit, Srinivasa Phanikanth Vedula and Srinivas Kakaraparthi.	TH-8-43	Probabilistic Seismic Hazard Analysis of Uttarakhand Region-Ketan Bagauli, Siddhardha R and Kalyan Kumar Gonavaram	TH-11-79	Ground behaviour due to excavations under plane strain condition in sand-Abhirami B and Karthigeyan S.
16:30	16:40	TH-4-161	COMPARITIVE STUDY ON IMPROVEMENT OF SOFT GROUND USING STONE COLUMNS FOR RAILWAY EMBANKMENT- A CASE STUDY-Chejerla Surya, B Kishore	TH-8-44	Probabilistic Seismic Hazard Analysis of Kannur District, Kerala-Hari Padmanabhan M P, Anna Skaria and Kalyan Kumar Gonavaram.	TH-11-87	RESPONSE OF SANDY SOIL GROUND DUE TO BURIED DRIANAGE PIPE LEAKAGE-Yogeshwar M and Karthigeyan S
16:40	16:50	TH-4-165	PARAMETRIC STUDY ON PERFORMANCE OF PILED RAFT FOUNDATION ON DENSE SAND UNDERLAIN BY SOFT CLAY-Chejerla Surya, Cr Eswara Prasad and K Mallikarjuna	TH-8-50	Effect of Rainfall and Seismic Loading on Reinforcement Force Coefficient for Reinforced Soil Slopes-J Yamini and B Munwar Basha	TH-11-101	Urban Metro Tunnel Construction Below Slums in Basaltic Terrain of Mumbai-Anshul Sindhvani, Alope Kumar Dey, Afzal Hossain Khan, Palwinder Singh, Shahram Mahmoudzadeh Hashtroudi and Zeeshan Ahmad.
16:50	17:00	TH-4-167	ULTIMATE SETTLEMENT AND COEFFICIENT OF CONSOLIDATION UNDER RADIAL DRAINAGE USING NON-LINEAR REGRESSION ANALYSIS-Aparna R.P,	TH-8-68	Effect of Drainage and Densification Mechanism in Mitigating Liquefaction during Repeated Shaking Events-Gowtham Padmanabhan and Ganesh Kumar Shanmugam.	TH-11-197	TBM in Difficult Ground Conditions: A Review of its Performance and Viability of Performance Predictive Models-Animesh and Riya Bhowmik

17:10	17:10	TH-4-170	UTILIZATION OF BIO-POLYMER TO IMPROVE THE ENGINEERING PROPERTIES OF MARINE SAND-Bikash Pradhan and Benazeer Sultana.	TH-8-96	Liquefaction Susceptibility of Coastal Region of Andhra Pradesh-P Mahesh Babu and Nr Krishnamurthy	TH-13-133	STUDIES ON THE GEOTECHNICAL CHARACTERISTICS OF MARINE CLAYS - A REVIEW-Jisna P U, Benny Mathews Abraham, A. Sridharan and Aleena Tom.
17:10	17:20	TH-4-174	Two Dimensional Volumetric Strain Measurements by Image Processing To Validate Stabilization of Black Cotton Soil by Construction Waste-Sai Pradeep Polapala and Muthukumar	TH-8-110	Correlation of Ultrasonic Pulse Velocity (Vp and Vs), Static & Dynamic Young's Modulus & Poisson's Ratio and other Engineering Properties of Different Rock found in India with	TH-13-193	Offshore Wind Turbine Foundation under Action of Wind Loads: Numerical Analyses-Ashitha C and Babloo Chaudhary.
17:20	17:30	TH-9-314	Comparison of Modulus of Subgrade Reaction and CBR from Numerical Simulation			TH-7-9	Landslide Simulations of Hill Region Soil Profiles of Idukki, Kerala Geethu Maria Joseph and Kodi Rangaswamy

# EIGHTH INDIAN YOUNG GEOTECHNICAL ENGINEERS CONFERENCE 2021 (8IYGEC 2021)

23-Oct-21		DAY 3 - 23 <sup>rd</sup> October 2021 (Saturday)					
Saturday		Virtual Mode					
10:00	11:20	<b>Plenary Session III</b>					
		<b>Chair- Prof. R. G. Robinson, IIT Madras</b>					
		<b>Co-Chair- Prof. A. Murali Krishna, IIT Tirupati</b>					
10:00	10:40	<b>Keynote Lecture V</b>					
Title: How Well Does Equivalent Uniform Cyclic Loading Represent Irregular Earthquake Loadings: Perspectives from the Cyclic Triaxial Test							
<i>Dr. Chian Siau Chen Darren, NUS, Singapore</i>							
10:40	11:20	<b>Keynote Lecture VI</b>					
Title: Design and Construction of Underground Structures							
<i>Dr. Makarand G. Khare, Terronova Consultants, Mumbai</i>							
11:20	11:25	<b>Corporate Presentation/ Video by Keller Ground Engineering India Private</b>					
<i>Mr. V.V.S. Ramadas, DGM, Keller Ground Engineering India Pvt.</i>							
11:25	11:30	Tea Break					
11:30	11:30	<b>Technical Session 19</b>		<b>Technical Session 20</b>		<b>Technical Session 21</b>	
		<b>Chair- Dr. S. Karthigeyan, Anna University, Chennai</b>		<b>Chair- Prof. Ashim Kanti Dey, NIT Silchar</b>		<b>Chair- Dr. Ravi Kiran Vaidya, Geo Dynamics, Vadodara</b>	
		<b>Co- Chair- Dr. Kala Venkata Uday, IIT Mandi</b>		<b>Co- Chair- Dr. P. Raghuvveer Rao, IISc Bangalore</b>		<b>Co- Chair- Dr. M. Muthukumar, VIT Vellore</b>	
		<b>Theme-8-Soil Dynamics and Earthquake Engineering</b>		<b>Theme 5- Geotechnical Investigation and Spatial Analysis</b>		<b>Theme-4- Ground Improvement</b>	
11:30	11:40	TH-8-111	Soil Structure Interaction effect on response of adjacent framed structure-Abhishek Mahadik and Vivek Deshmukh.	TH-5-61	Spatial Variability Mapping Of Soils In Thiruvananthapuram Taluk- Arya S and Jayasree P. K.	TH-4-181	Behavior of Vertically Confined Square Footing On Reinforced Sand Under Eccentric Loading-B. Kirtimayee and Narendra Samadhiya.
11:40	11:50	TH-8-117	Decoupling the Effects of Grain Size and Shape on the Liquefaction Response of Sand-Balaji Lakkimsetti and Madhavi Latha Gali.	TH-5-105	EFFECT OF XANTHAN GUM ON HILLY SOIL PARTIALLY TREATED WITH GROUND GRANULATED BLAST FURNACE SLAG-Amit Kumar Suman and Yamem Tamut.	TH-4-188	A Review on Behaviour of Fibre Reinforced Soil Subjected to Static and Dynamic Loading-Reehana Shaik and Muthukumar Mayakrishnan
11:50	12:00	TH-8-144	Numerical Analysis of Liquefaction and Settlement in Layered Soils- Sai Asrith Pyla, Nishanth Kiran Dadala and Kalyan Kumar Gonavaram.	TH-5-177	Development of Foundation Suitability Maps for South Chennai using GIS-Gowri S Krishna and Stalin V. K.	TH-4-191	Effect of Calcium Chloride on Strength Characteristics of Plastic treated Red Soil-Raj Priyanka T.
12:00	12:10	TH-8-204	Finite Element studies on the Response of a Framed Structure on Geotechnical Seismic Isolation (GSI) System-Mohamed Fouzul Aleem, Dhanya Js and Boominathan A	TH-5-216	Evaluation of Feasibility of ANN Models to Derive SPT N-Value- Tanwee Mazumder and Subhadeep Banerjee	TH-4-212	Soil Stabilization with Guar gum and Fly ash-Aditya Anshu and Yamem Tamut.
12:10	12:20	TH-8-215	Investigation of Dynamic Properties and Liquefaction Behaviour of Sand-Tire Derivatives Mix for Geotechnical Applications-Adyasha Amanta and Satyanarayana Dasaka	TH-5-237	Geotechnical data modelling using Artificial Neural Network (ANN)- Geographical Information System (GIS)-Mukuntha Raja V and Suresh E. S. M	TH-4-234	Influence of Nail Properties on the Performance of Soil Nail System-Krupa H R and Prasad S K.
12:20	12:30	TH-8-229	Evaluation of liquefaction potential using SPT values – Case Study- S Rupali and K Senthil.	TH-5-255	Establishing the Correlations between Electrical Resistivity and SPT N in Sandy Soils.-Balamaheswari M and Premalatha K	TH-4-254	Strength behaviour of Terrazyme treated Shedi soil.-Vineeth Kothari, Nisarga L, Rajashekara P, Puneeth M and Nethravathi S.
12:30	12:40	TH-8-240	Numerical Analysis of Rock Fall in Bituminous Coal Mines Susceptible to Dynamic Loads-Ankush Kumar Dogra, S Rupali and Ilyas Bhat	TH-5-258	STUDY OF RELATIONSHIP BETWEEN FULLY FROZEN AND UNFROZEN SAND-Kshitij Gaur and Rajat Mohan	TH-4-256	COMPREHENSIVE BEHAVIOR OF A POTENTIALLY EXPANSIVE SOIL STABILIZED WITH LIME AND LIGNOSULPHONATE-Landlin G, Sharmila B and Bhuvaneshwari S
12:40	12:50	TH-8-242	Review and Comparison of Liquefaction Evaluation Procedures- Tanmay Gupta and Madan Kumar Annam	TH-5-263	GPS AND GIS BASED SOIL MAPPING OF AHMEDABAD CITY- Akashkumar Gajjar, Biren Prajapati, Jignesh Makwana, Shubham Modh and Komal Parikh.	TH-4-262	Stabilization of Black Cotton Soil using Red Mud and Gypsum-Sunil Melli.
12:50	13:00	TH-8-271	Finite element analysis for the pile response under liquefaction in OpenSees-Sayantan Dutta and Radhikesh Prasad Nanda	TH-5-298	Analyzing the feasibility of creating soil profile bigdata from borehole data-Gokul Krishna J, Sivapriya S V and Priyadarshini R.	TH-4-268	Behavior and stabilization of a soft clay from Alleppey district, Kerala- A Review-Gayathri Prasad and Raheena M
13:00	13:10	TH-8-310	Physical Model Study on the Seismic Response of Retaining Walls with Sand – Tire Chips Mixtures-Sodom Bali Reddy and A Murali Krishna			TH-4-270	Ground Improvement Technique for Residential Building to Mitigate Liquefaction – A Case Study-Vani B and Gowtham A.

13:10	14:00	Lunch break
14:00	15:00	<b>Valedictory function</b>