

Day 1

12th July 2021 (Program at a Glance)

Time Slot		Event	Location
09:00	11:00	Inauguration	Plenary Hall
11:00	11:30	Tea break	
11:30	13:00	Parallel Technical Session I	Hall A
		Parallel Technical Session II	Hall B
		Parallel Technical Session III	Hall C
		Parallel Technical Session IV	Hall D
13:00	14:00	Lunch	
14:00	16:00	Parallel Technical Session V	Hall A
		Parallel Technical Session VI	Hall B
		Parallel Technical Session VII	Hall C
		Parallel Technical Session VIII	Hall D
16:00	16:30	Tea break	
16:30	18:20	Plenary Session I	Plenary Hall

Day 1 12th July 2021 (Detailed Program)

09:00	11:00	Inauguration	Plenary Hall
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11:30	13:00	<p>Parallel Technical Session I</p> <p>Chair: Dr. Ravi Kiran Vaidya, Geo Dynamics Co-Chair: Dr. Amarnath Hegde, IIT Patna</p> <p>Special Lecture by Prof. R Ayothiraman, IIT Delhi on Tunnel-Foundation Interaction in Urban Areas under Earthquake Load</p> <p>Paper presentations:</p> <p>910 Comparison of Response of Pushover Analysis and Dynamic Analysis of Pile Foundation by Arup Bhattacharjee, Jorhat Engineering College, Assam, India</p> <p>738 Elastic Seismic Design Response Spectra for Deep and Shallow Basin of The Indian Subcontinent by Ketan Bajaj, Swiss Re, Delhi, India</p> <p>949 Seismic Effect on Underground Box Structure for Metro and Subways with Varying Soil Parameters by Chiranjib Sarkar, AECOM India Pvt Ltd, India</p> <p>903 Seismic Analysis of buildings in Hilly areas with and without Base Isolation and Cable Support System by Athira V S, BITS Pilani Hyderabad Campus, India</p>	Hall A
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11:30 13:00 Parallel Technical Session II Hall B

Chair: Dr. Ajeet Prakash Pandey, NCS, MoES
Co-Chair: Dr. Babloo Chaudhary, NIT Surathkal

Special lecture by Prof. Vishwas A. Sawant, IIT Roorkee on
Numerical Modelling of Liquefaction

Paper presentations:

715 Liquefaction Behavior of Low to Medium Plasticity Sand-Fines Mixtures by Muttana S Balreddy, Siddaganga Institute of Technology, Tumkur, India

742 Influence of Density on the Static Liquefaction Characteristics of a Sandy Kutch Soil by Majid Hussain, National Institute of Technology Srinagar, India

808 Stress Strain Behavior of Non-Liquefied Soil and Liquefied Soil by Arup Bhattacharjee, Jorhat Engineering College, Assam, India

874 Control of Liquefaction Potential by Geosynthetic Reinforcements – A Study by Rajiv Chauhan, IKG Punjab Technical University, India

11:30 13:00 Parallel Technical Session III Hall C

Chair: Prof. TN Singh, IIT Bombay
Co-Chair: Dr. Vinoth S, NIT Surathkal

Special lecture by Prof. Priyanka Ghosh, IIT Kanpur on Seismic Stability of Slopes Reinforced With Micropiles - A Numerical Study

Paper presentations:

810 Centrifuge Modelling of Marginal Soil Slopes under Rainfall with Hybrid Geosynthetic Inclusions by Dipankana Bhattacharjee, Indian Institute of Engineering Science and Technology, Shibpur, India

831 Study on earth pressure distribution and displacements of narrow reinforced earth wall under static and cyclic loading by Manish V Shah, LD College of Engineering, India

882 Seismic Pull-out Capacity of Strip Plate Anchors Embedded In Sandy Slopes by Sunil Khuntia, National Institute of Technology, Rourkela, Odisha, India

938 Integrating Landslide and Seismic Hazards: A Case Study for Lower Indian Himalaya by Ritu Raj Nath, Assam Downtown University, India

11:30 13:00 Parallel Technical Session IV Hall D
Chair: Prof. Jyant Kumar, IISc, Bengaluru
Co-Chair: Dr. Rajib Saha, NIT Agartala

Special lecture by Prof. K. Muthukkumaran, NIT Trichy on
Dynamic Characterization of Lunar Soil Simulant (LSS-ISAC-1) for
Moonquake Analysis

Paper presentations:

- 716 Dynamic Pore Pressure Responses of Sand-Rubber Tire Shred Mixtures from Cyclic Simple Shear and Cyclic Triaxial Tests by B R Madhusudhan, Indian Institute of Technology Madras, India
- 724 Laboratory Investigation on Wave Characteristics due to Hammer Impact on Different Types of Soil by Neethu M, Cochin University of Science and Technology, Kochi, India
- 703 Dynamic Soil Properties of enzymatic cement stabilized clay by Geethu Thomas, National institute of technology, Calicut, India
- 883 Role of borehole information in minimizing uncertainties in surface wave testing by Aniket Desai, Indian Institute of Technology Roorkee, India

14:00 16:00 Parallel Technical Session V Hall A
Chair: Dr. Pradeep Kumar, CSIR-CBRI Roorkee
Co-Chair: Dr. B. Janaki Ramaiah, IIT Tirupati

SoAP lecture by Prof. BVS Viswanadham, IIT Bombay on
Studies on Modelling of Dynamic Compaction in a
Geocentrifuge

Paper presentations:

- 862 Ground Improvement of Soft Soil Using Bamboo as Flexible Pile with Stabilized Lime-Soil Pile-Cap Encapsulated by Geogrid and Geotextile by Malay Kumar Deb, Civil Engineering Consultancy Services Pvt. Ltd., India
- 718 Effect of Plasticity Index on Liquefaction Behavior of Silty Clay by Sufyan Ghani, National Institute of Technology Patna, India
- 791 Unconfined Compressive Strength of MICP Treated Black Cotton Soil by Rani B. Wath, Government College of Engineering Jalgaon Maharashtra, India
- 811 Effect of Sulphate Contamination on Lime Stabilized Black Cotton Soil by Shivanshi, Manipal University Jaipur, Rajasthan, India
- 838 Strength Behaviour of Marine Clay Stabilized With Marble Dust and Quarry Dust by B Manjula Devi, Datta Meghe college of Engineering, India

14:00 16:00 Parallel Technical Session VI Hall B
Chair: Prof. HR Wason, IIT Roorkee
Co-Chair: Dr. Shreyasvi C, GEM Foundation

SoAP lecture by Prof. Sebastiano Foti, Politecnico di Torino, Italy on Uncertainties in Small-Strain Damping Ratio Evaluation and Their Influence on Seismic Ground Response Analyses

Paper presentations:

- 869 Seismic Hazard and Risk Assessment in Maharashtra: A Critical Review by Abdullah Ansari, Indian Institute of Technology Delhi, India
- 906 Damage Assessment of Tunnels in Seismic Prone Zone during Earthquakes: A Part of Hazard Evaluation by Abdullah Ansari, Indian Institute of Technology Delhi, India
- 701 Site Characterization using Satellite Data and Estimation of Seismic Hazard at Ground Surface by Naveen James, Indian Institute of Technology Ropar, India
- 945 Site-Specific Seismic Ground Response Analysis for Typical Soil Sites in Central Khartoum, Sudan by Mohammed Ahmed, Building & Road Research Institute, University of Khartoum
- 907 Stochastic response surface based probabilistic analysis of geosynthetic reinforced soil slope under pseudo-static conditions by Ekansh Agarwal, AcSIR-Central Building Research Institute, India

14:00 16:00 Parallel Technical Session VII Hall C
Chair: Prof. Mahendra Singh, IIT Roorkee
Co-Chair: Dr. Kaustav Chatterjee, IIT Roorkee

SoAP lecture by Prof. Hemanta Hazarika, Kyushu University, Japan on Forensic Evaluation of long-distance flow in gently sloped ground during the 2018 Sulawesi Earthquake, Indonesia

Paper presentations:

- 818 Studies on Geosynthetic Reinforced Retaining Wall under Seismic Loading by Ananya Srivastava, Madan Mohan Malaviya University of Technology, India
- 819 Numerical Studies on the Behaviour of Slope Reinforced with Soil Nails by Sagar Jaiswal, Madan Mohan Malaviya University of Technology, India
- 909 Comparative study of seismic slope displacement analyses based on probabilistic modeling of soil parameters by Mao-Xin Wang, Institute of Engineering Risk and Disaster Prevention, Wuhan University, China
- 926 Strength Comparison of Flexible Materials for Stability of Slope by Amanpreet Tangri, JUIT Solan, India

809 Blast-Induced Ground Motion in Geo-Media by Vasant Matsagar,
Indian Institute of Technology Delhi, India

Parallel Technical Session VIII

Hall D

14:00 16:00

Chair: Prof. Ashwani Kumar, IIT Roorkee
Co-Chair: Dr. Subramanian Ramanathan

SoAP lecture by Prof. Gang Wang, The Hong Kong University of Science and Technology, Hong Kong on Large Deformation Analysis of Co-seismic Landslide using Material Point Method

Paper presentations:

812 Influence of geofoam infill trenches in attenuation of ground vibrations induced during dynamic compaction by Saptarshi Kundu, Indian Institute of Engineering Science and Technology, Shibpur, India

839 Stochastic Simulation of Near-Fault Earthquakes in Delhi Region using Long Period Velocity Pulse by Hemant Shrivastava, Madhav Institute of Technology and Science, Gwalior

915 Effect of Frequency Content of Earthquake Ground Motions on the Dynamic Behavior of Tiered Geo-Synthetic Reinforced Soil Retaining Wall by Arup Bhattacharjee, Jorhat Engineering College, Assam, India

741 Simulated annealing algorithm for subsurface shear wave velocity investigation using ground vibration data by Anushka Joshi, Indian Institute of Technology, Hyderabad, India

937 Ground Vibrations due to Moving Load in Proposed Subway Tunnel near Kamalapur by Sagar Barua, Bangladesh University of Engineering and technology, Bangladesh

16:30 18:20

Plenary Session I

Plenary Hall

Chair: Prof. SK Prasad, Vidyavardhaka College of Engineering
Co-Chair: Dr. Indrajit Pal, AIT Thailand

1st ISET Shamsheer Prakash Distinguished Lecture:

by Prof. Kenneth H. Stokoe, The University of Texas at Austin on The Increasing Role of Surface-Wave Measurements in Site Characterization

Keynote lecture by Prof. Adrian Rodriguez-Marek, Virginia Polytechnic Institute and State University on Seismic Hazard Analyses for Critical Facilities