

**Report of Ninth Indian Young Geotechnical Engineers Conference (9IYGEC) organized by IGS Aurangabad Chapter and Civil Engineering Department, MIT on 21-22 March 2023.**

Please find below brief report of Ninth Indian Young Geotechnical Engineers Conference (9IYGEC) organized by IGS Aurangabad Chapter and Civil Engineering Department, MIT on 21-22 March 2023.

Inauguration ceremony was organized on 21<sup>st</sup> March 2023 at 10:30am. Er. Vikas Ramgude, Chief Engineer, PWD Mumbai was the chief guest. Dr. Anil Joseph, President, IGS-Delhi, Dr. A.P. Singh, Hon. Secretary, IGS-Delhi, Dr. Santosh Bhosle-Director, MIT, Dr. Uttam Kalwane- Chairman, IGS Aurangabad Chapter and Dr. Manish Dixit- Hon. Secretary- IGS Aurangabad Chapter graced the stage.

10 Stalls were arranged for sponsors and other delegates to showcase their products.

Following are the details of special invite/ Key note session/ Expert talk arranged in the conference.

<b>Date</b>	<b>Session</b>	<b>Details of speaker with designation</b>	<b>Topic of session</b>
21-3-23	Special Invite	Krishna R. Reddy, PhD Professor, University Scholar & Distinguished Researcher. Director, Geotechnical & Geo-environmental Engineering Laboratory & Sustainable Engineering Research Laboratory, Civil, Materials, and Environmental Engineering, university of Illinois Chicago	"Sustainability and Resilience: New Paradigm in Geotechnical Engineering"
	Keynote	Dr. Aditya Singh, IIT Roorkee	Advances in Rock Mechanics
	Keynote	Dr. Saurav Rukhaiyar, Scientist, CSIR Central Institute of Mining & Fuel Research Nagpur	An Insight into Machine Learning Applications in Geotechnical Engineering
	Keynote	Mr. Tiru Kulkarni, President, Garware Technical Fibres,Pune	Design and Installation of avalanche barriers.
	Keynote	Dr. Ankit Garg, Department of Civil & Environmental Engineering, Shantou University, China	Role of vegetation and bio char in geo-environmental engineering infrastructure
	Expert	Er. Shubhada Jagtap, Mumbai	Ground Improvement of Soft Soil –Review through Case studies.
	Expert	Dr. Meghna Sharma, Post-Doc fellow, IIT Powai, Mumbai	Potential of Bio mediated calcite precipitation methods for heavy metal immobilization and strength enhancement of contaminated soil
<b>Date</b>	<b>Session</b>	<b>Details of speaker with designation</b>	<b>Topic of session</b>
22-3-23	Keynote (Online)	Dr. Misko Cubrinovski, University of Canterbury, New Zealand	Engineering evaluation of liquefaction problems
	Keynote (Online)	Dr. Minu Treesa Abraham Germany	Numerical modelling of debris flows for simulation based decision support
	Keynote (Online)	Dr. Sparsha Nagula, Technical University of Hamburg, Germany	3D modelling of land slide in soft clay
	Expert	Dr.S.S. Basarkar, Afcons, India	Shallow and Deep Foundation For Infrastructural projects
	Expert	Dr. Priti Maheshwari, IIT Roorkee	Soil Structure Interaction
	Expert	Dr. Pratik Negi, NIT Calicut	Structural health Monitoring of Inland navigation & Flood Protection structures

In total 70 full length papers were received for the conference and 65 Research scholars/ MTech Students presented their paper. Eminent and well qualified Professors/ Associate Professor from IIT/ NIIT/ Prestigious Private college were Chair and Co-Chair for 10 different themes organized in 9IYGEC.

Following participants were awarded with “Best paper award” under the themes they have participated.

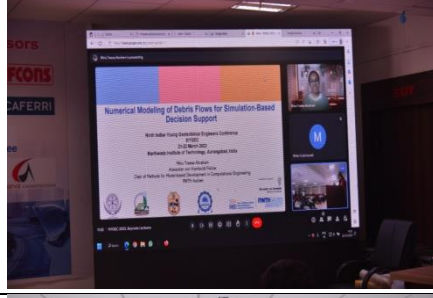
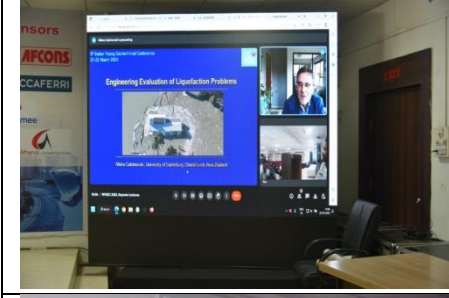
Sr. No.	Name of Author	Paper Title	Theme of the Research Paper
1	Mihir K. Raje, Sr. Geotechnical Engineer, Keller Ground Engineering India Pvt Ltd., Mumbai	Liquefaction mitigation using ground improvement: A case study	Advanced Ground Improvement Techniques
2	Darshan M. Deoda, PG Scholar , Govt. College of Engineering Amravati.	Experimental investigation on liquefaction mitigation using pumice aggregate and geosynthetics	Geosynthetics and its Applications
3	Malhar V. Patil ,Director Savi Infrastructures & Properties Pvt. Ltd.,Pune	Innovative design of retaining wall; A case study of NH-48 Project at chandnichowk interchange Pune	Transportation Geotechnics
4	Sumanth H C , Sarathy Geotech and Engineering Services Pvt Ltd, Bengaluru	Assessment of Pile Load Capacity by Static and Dynamic Approaches	Shallow and Deep Foundations
5	Adyasha Swayamsiddha Amanta, Postdoctoral Fellow, IIT Bombay	Numerical Investigation on the Use of Scrap Tire Derivatives for Liquefaction Mitigation	Earthquake Geotechnical Engineering
6	Parikshit Dubey, M.Tech student, NIT Silchar	Dynamic Behaviour Analysis Of Barak River Sand Using Resonant Column Apparatus	Geotechnical Site Investigations and Case Studies
7	Gaurav Jain, M.Tech Student, Department of Civil Engineering, Indian Institute of Technology, Roorkee	A Thermal-Sensitive Elastoplastic Semi-Analytical Solution for Wellbore Stability	Rock Mechanics and Rock Engineering
8	Kunal Gupta, PMRF Doctoral Fellow, Department of Civil Engineering, Indian Institute of Technology Indore	An integrated approach to co-seismic landslide hazard assessment by probabilistic modelling of parametrical uncertainties in modified Newmark’s model	Slope Stability and Landslides
9	Swapnil Mishra, Assistant Professor, IIT Dhanbad	Factors affecting crack length of a shallow tunnel under surface impact load	Tunnelling and underground structures
10	Ankita Hazarika, M.Tech Scholar, National Institute of Technology Warangal	Removal Of Microplastics By Using Agro Waste Biochar	Geo-environmental engineering

The programme concluded with Valedictory function on 22-03-2023 at 17:30 hrs. Er. Vikas Patil and Dr. A.P. Singh were present. The best paper in each theme was judged and meritorious students were awarded certificates and memento.

234<sup>th</sup> Executive Committee meeting of IGS was also conducted on 21<sup>st</sup> March 2023 at 2:00pm in Civil Engineering Department, MIT, Aurangabad.

The 9IYGEC was conducted under the guidance of Organizing Chaiman, Dr. Manish S. Dixit, Hon. Secretary, IGS Aurangabad chapter. Huge efforts were taken by Prof. Quadri S.G.- Hon. Joint Secretary, Prof. S.T. Patil – Treasurer, Prof. Yogesh Shermale-Member, Prof. Archana Pathak –Member of IGS Aurangabad Chapter.

Lastly Prof. S.N. Pawar, Prof. A.P. Jaiswal, Prof. A.A. Ratnaparkhi, Prof. Sagar Deshmukh and Prof Umesh Salunke worked hard for the success of the program.





*Manish*

Dr. Manish S. Dixit  
Secretary,  
IGS Aurangabad Chapter