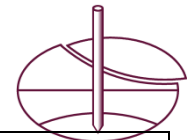


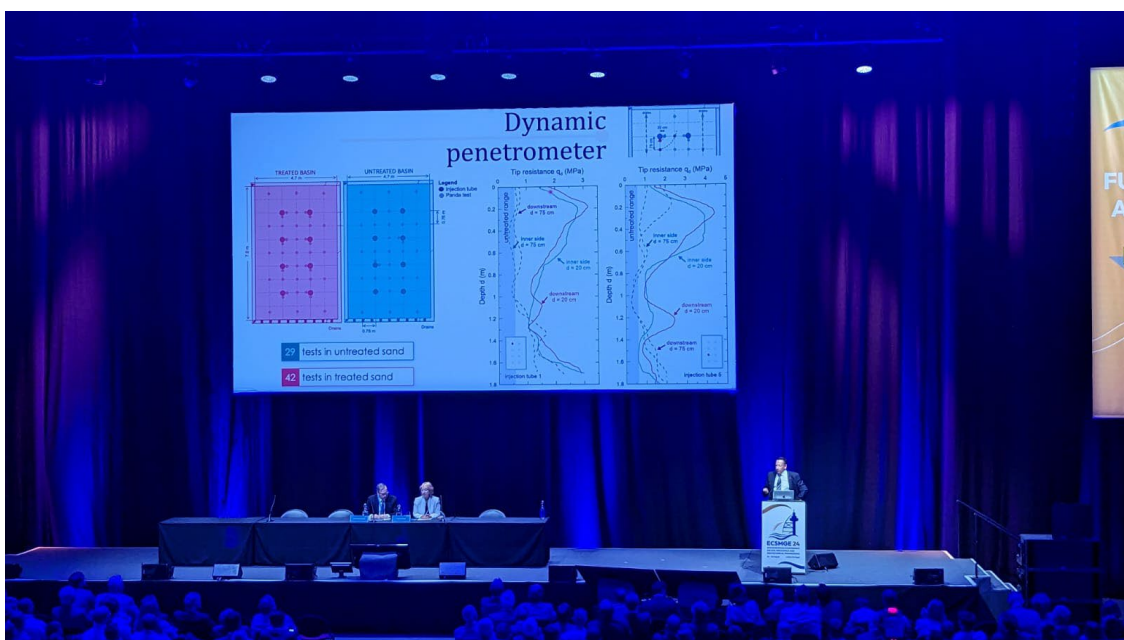
**ISSMGE FOUNDATION
REPORT ON CONFERENCE ATTENDANCE**

Your Name: Murapaka Swamynaidu	Your Organization: Indian Institute of Technology Roorkee, Uttarakhand	Date of report: 8-9-2024
Conference Title: XVIII ECSMGE 2024	Location of Conference: Lisbon, Portugal	Dates of Conference: August 26-30, 2024
What you learned: I gained and strengthened my knowledge of the importance of correlating practical problems with theory for effective geotechnical solutions from the key note lectures by various experts. The lectures gave a detailed insight into the challenges associated with in situ ground improvements for various applications. The ground improvement and stabilization session on August 28, 2024, was informative and insightful to expand my research interest. Further discussed with exhibitors for future opportunities.		
People you met: Dr. Anand Puppala Dr. Krishna Reddy Dr. Ozer Cinicioglu Dr. David Toll Dr. Anil Joseph Dr. Anumitha Mishra Dr. Rao Martand Singh Dr. Sara Rios Dr. Madi M Disfani Dr. Charles Shackelford		
Main features of conference: The XVIII ECSMGE 2024 Conference was well planned with keynote lectures delivered by various experts. The conference presentation sessions were concisely structured to include research works and field practices from varied domains of geotechnical engineering. Further, I got a chance to attend guest lectures on in situ ground improvements delivered by experts.		
Your comments on the conference: It is a great opportunity to participate in the prestigious XVIII ECSMGE 2024 Conference. I met with great people who are working in the same domain. The conference theme aligns closely with my doctoral research, and I believe that my attendance would not only enrich my academic pursuits but also facilitate valuable networking that could potentially lead to career opportunities.		
Please attach short report (maximum 400 words) suitable for publication in the ISSMGE Bulletin: This conference is a significant opportunity for me to enhance my knowledge, present my research, and network with professionals in my field. I am honoured to have been accepted		



to present my paper titled “Prediction Model for Strength of Cement-Stabilized Clays For In-Situ Soil Mixing Using Artificial Neural Network”, which explores prediction model for the strength of cement-stabilized clay from the laboratory test results performed on high-plastic illite clay. First, the UCS tests are performed for cement-content varying from 5% to 50% by dry weight, for two water-contents of 1.5 and 1.85 times the liquid limit (LL), and the curing time of 7, 28, and 90 days. Test results indicate that the UCS increases with the increase in curing time and cement-content while reducing with the increase in water-content. The prediction model for UCS is then developed using the artificial neural network (ANN), and the model performance is assessed based on root mean squared error (RMSE) and coefficient of determination (R^2). For in situ ground improvement works, the knowledge of such prediction methods can be advantageous in controlling the use of materials, human resources, time, and cost involved in conducting the experimental work.

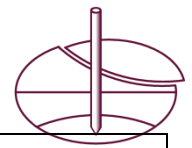
Photographs from Conference:



Inaugural lecture by Dr. Lyesse Laloui Vice-President of the ISSMGE for Europe (Chairman)



Presenting my research work at the XVIII ECSMGE conference, 2024



With Prof. Anand Puppala and Dr. Madi M Disfani



With Prof. Krishna Reddy and Prof. Ozer Cinicioglu



With Professors and Indian Colleagues