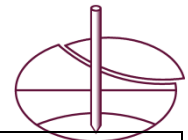


**ISSMGE FOUNDATION
REPORT ON CONFERENCE ATTENDANCE**

Your Name: <i>Khin Thinn Soe</i>	Your Organization: <i>Indian Institute of Technology IIT Roorkee</i>	Date of report: 17 th September 2024
Conference Title: <i>XVIII ECSMGE 2024</i>	Location of Conference: <i>Lisbon, Portugal</i>	Dates of Conference: <i>25th August 2024 to 30th August 2024</i>
What you learned: The latest research and innovations from many presenters and authors from different institutes throughout the world are organized and interpreted at this conference. Moreover, world-renowned companies such as Keller, Geosol, Liebherr, VJ Tech, and many others exhibit their best practices of soil mechanics and geotechnical engineering, specifically used in the field. So, both the academic sessions and fieldwork are observed and learned from this marvelous event.		
People you met: Professor Krishna R. Reddy (University of Illinois Chicago) Professor Charles D. Shackelford (Colorado State University) Professor Alexandre Pinto (President of the Organising Committee of XVIII ECSMGE2024) Dr. Anil Joseph (President of Indian Geotechnical Society) Mr. Phil McGoldrick (International Business Development Manager of TECHFAB (India) Industries Ltd.) Dr. Tomasz Szczepanski (Geotechnical Specialist/Installation Engineer of GDS Instruments Ltd.)		
Main features of conference: The main theme of the conference is “CHALLENGES OF GEOTECHNICAL ENGINEERING TO MEET CURRENT AND EMERGING SOCIETY NEEDS”. It focuses on the knowledge of problems and solutions for more proficient management of resources by learning from the case studies and by fostering the synergy between Academicians and Practitioners.		
Your comments on the conference: As I am an international student at the Indian Institute of Technology IIT Roorkee, belonging to Myanmar, it was a great chance for me to learn and interact with proficient geotechnics by attending and presenting some parts of my PhD work at the conference. Moreover, as I am an assistant lecturer at West Yangon Technological University under the Ministry of Science and Technology, Myanmar, this conference provides a great benefit and assists my		



future career development. Now, I am able to distribute my knowledge and experiences of this event to the young engineering students for the development of the Geotechnical Engineering Society in Myanmar.

Please attach short report (maximum 400 words) suitable for publication in the ISSMGE Bulletin:

The XVIII European Conference on Soil Mechanics and Geotechnical Engineering (ECSMGE 2024), held in Lisbon, Portugal, on 26th to 30th August 2024, showcased the latest advancements in geotechnical engineering. Organized by the Portuguese Geotechnical Society under the auspices of the ISSMGE, the conference attracted a wide range of international experts, academics, and industry professionals.

The theme, " CHALLENGES OF GEOTECHNICAL ENGINEERING TO MEET CURRENT AND EMERGING SOCIETY NEEDS," resonated throughout the sessions. Keynote addresses highlighted great technologies and sustainable practices shaping the future of soil mechanics. Notable presentations explored geotechnical challenges posed by climate change, urban development, and resilient infrastructure, offering practical solutions to pressing global concerns.

One of the standout sessions focused on digital transformation in geotechnics, emphasizing the increasing role of AI, data science, and machine learning in enhancing design precision and operational efficiency. Case studies illustrated how these technologies are being integrated into real-world projects, enabling more effective geotechnical risk management. A major focus was also placed on the sustainability of geotechnical projects. Discussions on minimizing the carbon footprint of construction processes, optimizing the use of materials, and developing eco-friendly solutions for foundation engineering were highlighted. The Lisbon location was also particularly fitting, as the city's rich historical and geotechnical legacy provided a live example of enduring sustainable engineering practices.

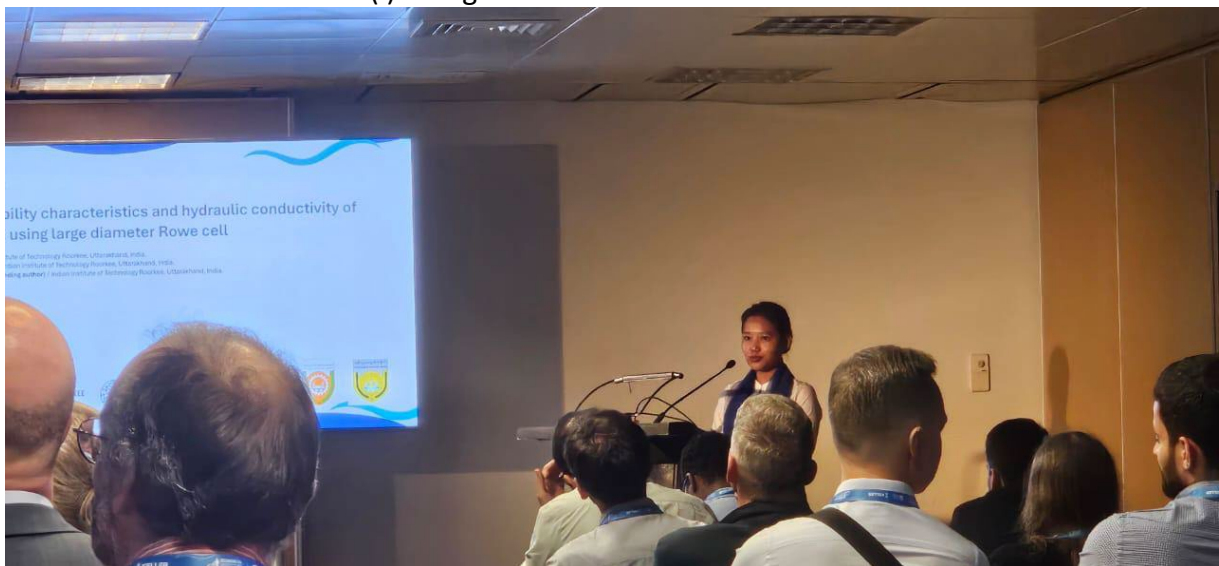
Networking events further fostered collaboration among participants, facilitating the exchange of ideas that will shape future research and practice. Overall, the XVIII ECSMGE 2024 reaffirmed the vital role of innovation and sustainability in advancing the field and set the stage for continued progress in addressing both emerging and longstanding geotechnical challenges.

For me, it is the greatest establishment both for my career development and for my personal socializing experience. I acknowledge and appreciate the ISSMGE for providing me with the travel grant to attend this amazing event.

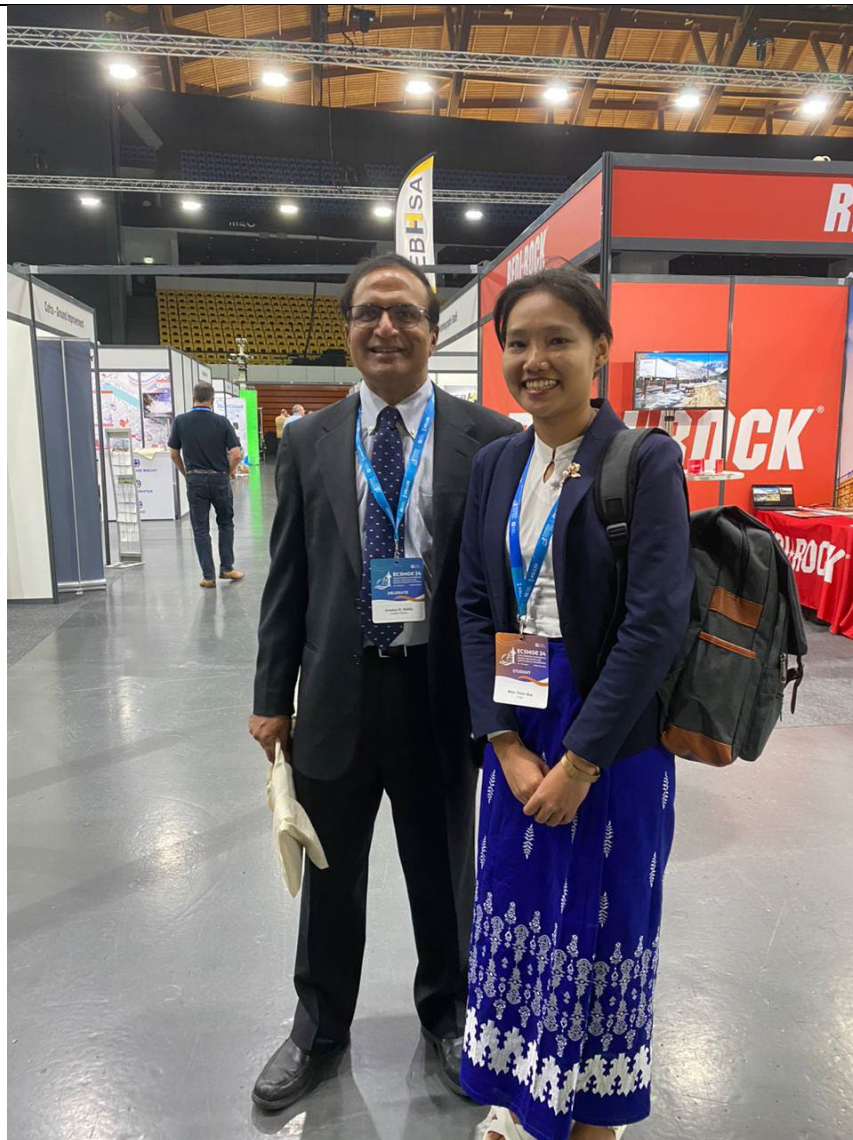
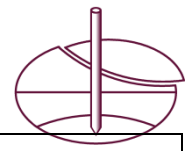
Photographs from Conference:



(i) Delegates and students from India



(ii) Presentation of my research paper



(iii) Professor Krishna R. Reddy



(iv) Prof. Alexandre Pinto



(v) Prof. Krishna Reddy, Prof. Charles Shackelford and students