ISSMGE FOUNDATION
REPORT ON CONFERENCE ATTENDANCE

Your Name: Pavan Kumar Meena	***Your Organization:*** Indian Institute of Technology Roorkee	***Date of report:*** 01-01-26
Conference Title: 17th international conference of the International Association for Computer Methods and Advances in Geomechanics (IACMAG).	***Location of Conference:*** Hong Kong Polytechnic University, Hong Kong	***Dates of Conference:*** December *18-21, 2025*

What you learned:

Participation in IACMAG 2025 enhanced my understanding of advanced computational geomechanics. This prestigious international conference significantly enhanced my academic and professional development as a young researcher in geotechnical engineering. The keynote lecture on elastoplastic constitutive frameworks deepened my knowledge of advanced numerical modeling. Furthermore, keynote sessions on data-driven and machine-learning approaches opened new pathways for integrating artificial intelligence into my future research. Overall, attending this conference helped improve my current research, facilitated valuable collaborations, and guided my academic path toward new developments in digital geomechanics and sustainable infrastructure.

People you met:

The conference offered valuable opportunities for interaction with prominent international researchers and experts in geotechnical engineering.

- Prof. John Carter (The University of Newcastle, Australia)
- Prof. Zhengshou Lai (Sun Yat-sen University Guangzhou, China)
- Prof. Yong Fu (Southern University of Science and Technology, China)
- Prof. Jidong Zhao (Hong Kong University of Science and Technology)
- Prof. Buddhima Indraratna (University of Technology Sydney, Australia)
- Prof. Richard J. Bathurst (Royal Military College of Canada)
- Prof. D.N. Singh (Indian Institute of Technology, Bombay)
- Prof. Bal Krishna Maheshwari (Indian Institute of Technology, Roorkee)

Main features of conference:

The conference focused on recent advancements in computational geomechanics and geotechnical engineering, providing an international forum for researchers, practitioners, and academics to share and discuss state-of-the-art developments. IACMAG 2025 featured keynote lectures by leading experts in geotechnical and geoengineering disciplines, along with peer-reviewed technical paper presentations and specialized sessions addressing

numerical modeling, soil–structure interaction, seismic and Multiphysics problems, and advanced constitutive modeling. Dedicated sessions on machine learning, digital geomechanics, and sustainable geotechnical infrastructure highlighted emerging research directions relevant to modern geotechnical practice. The conference also promoted technical discussions, professional networking, and research collaboration, enabling participants to exchange ideas, receive expert feedback on their work, and establish international collaborations within the global geotechnical engineering community.

Your comments on the conference:

It was a privilege to participate in IACMAG 2025. The conference provided an excellent platform to interact with internationally recognized researchers and experts in geotechnical engineering and geomechanics. The keynote lectures were highly informative and offered valuable insights into emerging trends and future research directions in computational geomechanics. I also presented my research work during a technical session and received constructive and encouraging feedback from the session chair and co-chair. Overall, participation in this conference enhanced the quality of my research and facilitated meaningful technical discussions and professional networking, which will be beneficial for my future research activities.

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

The 17th International Conference of the International Association for Computer Methods and Advances in Geomechanics (IACMAG 2025) provided an excellent international platform for advancing research and practice in computational geomechanics and geotechnical engineering. The conference brought together researchers, practitioners, and early-career scholars from across the world to discuss recent developments in numerical, analytical, and data-driven approaches for solving complex geotechnical problems.

The technical program comprised high-quality keynote lectures, invited talks, and parallel technical sessions covering a broad range of topics, including soil–structure interaction, advanced constitutive modeling, seismic stability analysis, Multiphysics coupling, geosynthetics, and applications of machine learning in geomechanics. The keynote lectures were particularly insightful, offering clear perspectives on current challenges and future research directions in digital and computational geomechanics, especially in the context of seismic design and performance-based analysis.

The parallel technical sessions were well organized and professionally conducted, with presenters sharing detailed findings from numerical, experimental, and limit-equilibrium-based analytical studies. The discussions following the presentations were engaging and constructive, promoting effective technical exchange. A notable strength of the conference was its emphasis on combining classical mechanics-based approaches with emerging data-driven methodologies to enhance the reliability of geotechnical design under complex loading conditions.

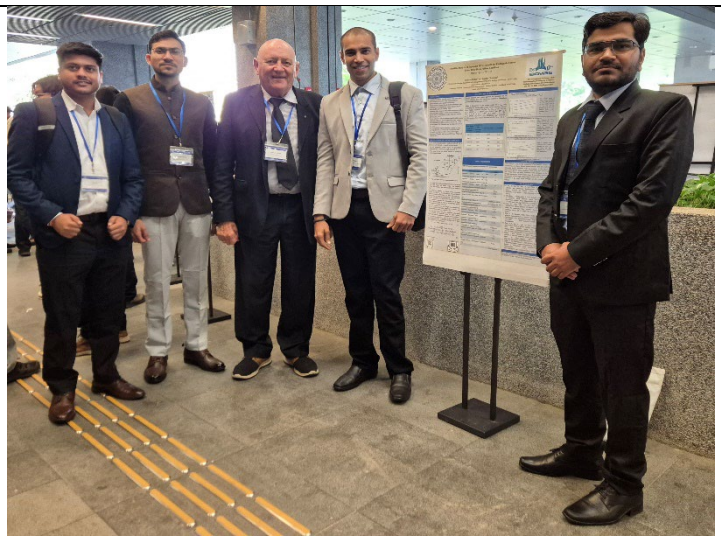
As a presenting author, I presented my research paper entitled “Internal Stability Analysis of Geosynthetic-Reinforced Steep Soil Slopes Considering the Effect of Tension Cracks.” The study focused on a closed-form pseudo-static limit equilibrium framework to evaluate internal seismic stability of reinforced soil slopes, explicitly accounting for tension crack formation, water forces, pore pressure effects, and surcharge loading. The presentation generated meaningful technical discussion, and the feedback received from the session chair, co-chair, and audience was constructive and valuable for improving and extending my ongoing research.

Beyond the technical sessions, the conference provided excellent opportunities for professional interaction and networking with internationally recognized researchers and fellow doctoral scholars. These interactions facilitated the exchange of ideas and opened avenues for future research collaboration. Overall, participation in IACMAG 2025 significantly enriched my academic experience and contributed positively to my professional development in the field of computational and seismic geotechnical engineering. I sincerely acknowledge the financial support provided by the ISSMGE Foundation, which made my participation in this conference possible.

Photographs from Conference:



Pavan Kumar Meena (me) at the IACMAG 2025 conference venue



With Prof. John Carter, President of the IACMAG Board and Fellow PhD scholars



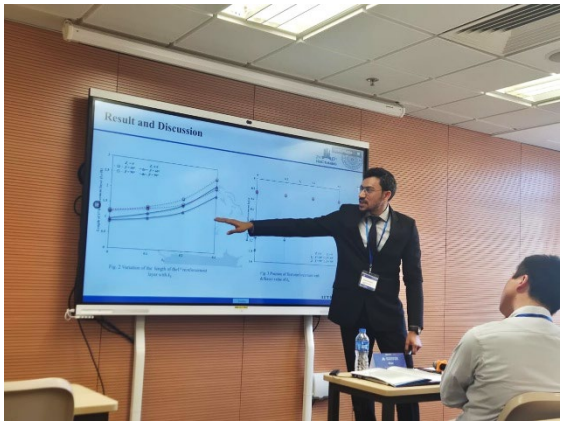
With Prof. Richard J. Bathurst, Royal Military College of Canada



With Prof. Jidong Zhao, Local Organizing Committee Co-Chair of IACMAG 2025



Award received during the banquet on behalf of my supervisor, Prof. Kaustav Chatterjee, for “Excellent Regional Contribution”





At my research presentation, receiving the presentation certificate from Prof. Qiushi CHEN and Prof. Weijian LIANG,




Interactive discussion during the poster presentation session at the conference



Group photograph of conference participants