

Record of Activity for 45th ISSMGE TC304 Meeting (online)

Date: 10/12/2024

Time: 09:00 – 10:30 BST

Location: online over Microsoft Teams

1. Activities in the past six months (conferences, short courses, awards, keynotes, and special issue).

1.1 Highlighted activities

- A new Eurocode guideline report titled “Reliability based verification of limit states for geotechnical structures” is available. The working group comprised 28 members from 14 European Countries led by Timo Schweckendiek.

1.2 Conferences

- The 4th TC304 online forum, “Quantitative Risk Assessment of Geohazards”, was held on 26th November. A recording of the event can be found here: [The 4th TC304 Georisk Forum \(part 1\)](#). The session was chaired by Cormac Reale and talks were given by Jinsong Huang, Xin Liu, Liang Gao, Zhongqiang Liu, Michael Hicks and Jie Zhang.

1.3 Short courses (please only keep those in the past 6 months and let members add to during the meeting)

- TC304 Short Course on “Probabilistic reliability analysis: theories, methods, and algorithms” was held on 11th October 2024, during the 2nd Workshop on the Future of Machine Learning in Geotechnics and the 5th Machine Learning in Geotechnics Dialogue (11-13 October, 2024, Chengdu, China). The co-leaders of the short course were Jianye Ching and Jie Zhang. The secretary of the short course was Peng Zeng. The instructors of the course were Jianye Ching, Jian Ji, Te Xiao, Peng Zeng, and Jie Zhang.
- TC304 Short Course on “Why is a reliability-based design framework beneficial for industry?” was held on 25th August 2024, in Lisbon, Portugal, prior to the start of ECSMGE XVIII. The course was led by Michael Hicks, and the instructors were Michael Hicks, Timo Schweckendiek, Bak Kong Low, Burt Look and Zhongqiang Liu.

1.4 Design codes (please only keep those in the past 6 months and let members add to during the meeting)

- CHBDC (Canadian Highway Bridge Design Code) Section 6 Technical Subcommittee on "Foundations and Geotechnical Systems"; part of the ongoing work on the geotechnical design provisions to appear in the next edition of CHBDC (2025); chaired by Gordon Fenton.

1.5 Student Contest

- Iason Papaioannou (Technical University of Munich), Jinhui Li (Harbin Institute of Technology (Shenzhen)), Ronald Schneider (Bundesanstalt für Materialforschung und -prüfung (BAM), Berlin), and Te Xiao (Shanghai Jiao Tong University) held the 8th ISSMGE TC304/TC309 Student Contest on landslide detection.

[https://eur01.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.fomlig2024.com%2FEn%2FMenu%2Fa6ac32f9-02cb-421b-8bd6-242627ce7bf8&data=05%7C02%7Ccr760%40bath.ac.uk%7Cce70cafb9a4d48c4733808dc97e87b69%7C377e3d224ea1422db0ad8fcc89406b9e%7C0%7C0%7C638552272554915605%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ikk1haWwiLCJXVC16Mn0%3D%7C40000%7C%7C%7C&sdata=NM4f2BvgKCsmcc4zHIAZi71QaK6AVhO6cPN171Y6WDM%3D&reserved=0\).](https://eur01.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.fomlig2024.com%2FEn%2FMenu%2Fa6ac32f9-02cb-421b-8bd6-242627ce7bf8&data=05%7C02%7Ccr760%40bath.ac.uk%7Cce70cafb9a4d48c4733808dc97e87b69%7C377e3d224ea1422db0ad8fcc89406b9e%7C0%7C0%7C638552272554915605%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ikk1haWwiLCJXVC16Mn0%3D%7C40000%7C%7C%7C&sdata=NM4f2BvgKCsmcc4zHIAZi71QaK6AVhO6cPN171Y6WDM%3D&reserved=0).)

2 Future Activities

Please email updates to Cormac Reale (cr760@bath.ac.uk) for compilation

2.1 Conferences & workshops

- 9th International Symposium for Geotechnical Safety and Risk (ISGSR) will be held in Oslo on the 24th – 27th of August 2025.
- The Third Workshop on the Future of Machine Learning in Geotechnics will be held on 15-17 October 2025, in Florence, Italy. Abstract submission opens in January, deadline April, call for technical sessions open.

2.2 New journal & special issues

- There is a new Elsevier journal called “Geodata and AI” with an open call for papers. Contact Chong Tang at ceetc@dlut.edu.cn for details.

2.3 Keynotes & short courses (let members add to during the meeting)

2.4 Books (let members to add during the meeting)

- Monograph “Big Data in Geotechnics” by KK Phoon, Chong Tang & J Ching, in preparation.
- Book Series: Challenges in Geotechnical and Rock Engineering Series – Leading Authors for ongoing books: 1) Jianye Ching; 2) Zhenyu Yin; 3) Yu Wang; 4) Kok-Kwang Phoon and Chong Tang; 5) Luqi Wang and Wengang Zhang. 200-300 pages per book.

3 Other businesses