TC201 DYKES AND LEVEES

Hybrid Committee Meeting

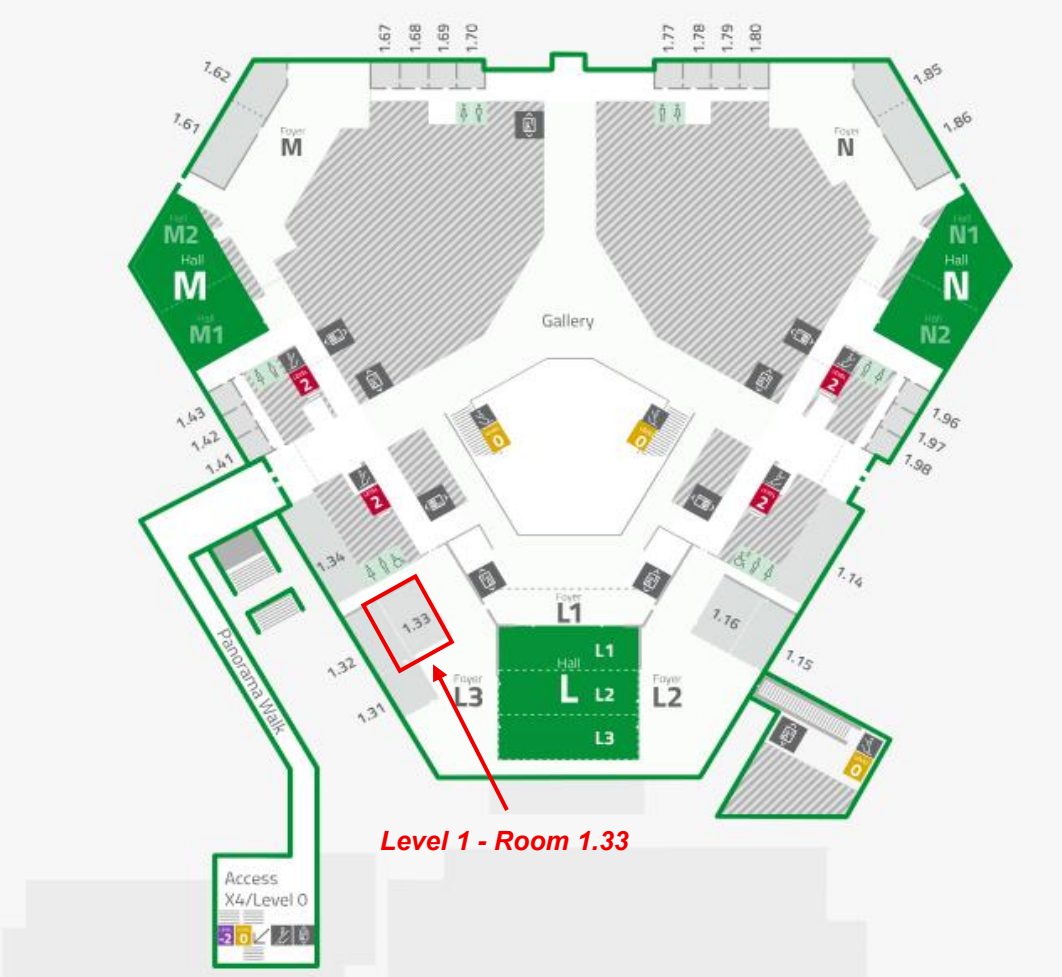
Date: 17 June 2026, Time 13:00-13:45 (CEST)

Online attendance

Join: *https://teams.microsoft.com/meet/364427975733968?p=WBzSiO4suBY78B5eN9*
Meeting ID: 364 427 975 733 968
Passcode: 6v3rP3hx

In-person attendance

Room 1.33 Level 1
21st ISSMGE Conference, Vienna



AGENDA

1. Opening of the meeting. Attendance record. Additional items to be added if requested
2. Acknowledgement of outgoing Chair and welcome by the new Coordinating Team
3. ‘Guard of Honour’ – Recognition of Meindert Van’s Contribution to TC201
4. Appointment of TC Representatives to the new ISSMGE Geotechnical Research Journal
5. Terms of Reference (Attachment 1)
6. Membership review
7. TC201 Wider Community
8. Task Forces & Call for ideas
9. Past and future activities
    a. TC201 Report Techniques for reinforcement and renovation of levees
    b. Ongoing International Projects
10. TC201 talks and posters presented at ICSMGE Vienna 2026
11. Any other business
12. Next TC106 meeting

ATTACHMENT 1 – TERMS OF REFERENCE

OBJECTIVE 1: DISSEMINATION

Disseminate knowledge and practice in the area of soil mechanics and geotechnical engineering associated with Dykes and Levee

1. Workshops: Organise in-person, hybrid, and virtual workshops focused on understanding, monitoring, and modelling the mechanisms leading to the failure of dykes and levees, as well as on low-carbon and nature-based approaches to mitigating failure hazards.
2. Research and Case study Webinar: Organise webinars to present the latest research developments, along with case studies of levee failures and innovative strategies for levee rehabilitation and reinforcement.
3. Reporting: Encourage the preparation of state-of-the-art lectures and White Papers on new approaches to hazard assessment, site characterisation and in-field monitoring, as well as on innovative methods to mitigate climate-driven and animal-induced hazards.
4. Benchmarking: Promote benchmark exercises (e.g., round-robin exercise on modelling levee failure) to establish the capabilities of current theoretical frameworks in predicting the response of dykes and levees

OBJECTIVE 2: GUIDELINES AND RECOMMENDATIONS

Promote the preparation of international collaborative Guidelines and Recommendations on:

1. Site investigation
2. Field monitoring
3. Design underpinned by numerical modelling
4. Techniques for renovation and reinforcement
5. Nature-based approaches for climate adaptation
6. Integration of geotechnical engineering with biodiversity practices

OBJECTIVE 3: CONFERENCE ASSISTANCE

Promote specialised sessions on dykes and levees at international and regional conferences on Soil Mechanics and Geotechnical Engineering, as well as at international and regional events supported by the ISSMGE ‘Fundamental’ Technical Committees.

OBJECTIVE 4: INDUSTRY LINKS

Industry Liaison: Identify and engage with organisations responsible for the management of flood defence infrastructure, as well as those involved in the design of new earthen structures and the rehabilitation and reinforcement of existing ones.

TC Cooperation: Actively collaborate with other technical committees whose areas of focus substantially overlap with the understanding, monitoring, and modelling of mechanisms leading to the failure of dykes and levees.

FUNDAMENTALS

TC 101: Laboratory Stress Strain Strength Testing of Geomaterials

TC 102: Site Characterization

TC103: Numerical Methods in Geomechanics

TC104: Physical Modelling in Geotechnics

TC105: Geomechanics from Micro to Macro

TC106: Unsaturated Soils

APPLICATIONS:

TC210: Embankment Dams

TC213: Scour and Erosion

TC220: Field Monitoring in Geomechanics

TC223: Bio-Geotechnical Engineering