

TC201 DYKES AND LEVEES

Hybrid Committee Meeting

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



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

1. Attendance record. Additional items to be added if requested

Attendance record

<https://forms.office.com/e/xifdeN1RTs>



2. New Core Team and acknowledgement of outgoing Chair



Chair

Alessandro Tarantino
University of Strathclyde
Glasgow, UK

alessandro.tarantino@strath.ac.uk



Vice-Chair

(Norma) **Patricia López Acosta**
Universidad Nacional Autónoma de México
Mexico City, Mexico

NLopezA@iingen.unam.mx



Secretary

Yida Tao
DELTARES
Delft, Netherlands

Yida.Tao@deltares.nl



Immediate Past Chair

Cor Zwanenburg
DELTARES
Delft, Netherlands

Cor.Zwanenburg@deltares.nl

(maternity leave until Nov 2026)

3. 'Guard of Honour'

Recognition of Meindert Van's Contribution to TC201



Meindert Van

DELTARES

Delft, Netherlands

Meindert.Van@deltares.nl

Meindert Van is stepping down from TC201.

He initiated the TC in May 2006 and led the TC for its first ten years, making a significant contribution as Chair to the wider Dykes and Levees community. He then passed the role of Chair to Cor Zwanenburg in February 2016.

Even after stepping down as Chair, he continued to make key contributions to TC201 by leading two major reports.

- TC201 Report *Failure Paths for Levees* (2022)
- TC201 Report *Techniques for reinforcement and renovation of levees* (2026)

While the ISSMGE does not formally provide for “Membership for Life” within Technical Committees, such recognition would be much deserved in Meindert’s case.

4. Appointment of TC Representatives to the new International Journal of Geoengineering Case Histories

ISSMGE International Journal of Geoengineering Case Histories
<https://geocasehistoriesjournal.org/editorial-board>

The TC-appointed Editorial Board member responsibilities are

- (a) review no more than 5 papers per year (typically less);
- (b) serve as Guest Editor of a special issue from the Technical Committee on case histories in the next couple of years.

Cor Zwanenburg (Immediate Past Chair) is the TC201 appointed Editorial Board member

5. Terms of Reference

Updated Terms of Reference uploaded to the TC201 website

Geotechnical Aspects of Dykes and Levees and Shore Protection

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Membership

Task Forces

International Projects

 Sign-up to receive committee news

Objective 1: Dissemination

+

Objective 2: Guidelines & Recommendations

+

Objective 3: Conference Assistance

+

Objective 4: Industry Links

+

**ACTION for TC201 Members:
Review the Terms of Reference and propose any amendments to the Core Team**

6. Membership review

	Nominated Members	Corresponding Members
Voting right	Yes	No
Max number nominated by National Societies	2	Unlimited

The distinction between Nominated and Corresponding members is very subtle;
 in practice, voting occurs only for the nomination of the Chair.

Expected contribution of TC201 Members

$\geq 0 \rightarrow$ NO

$> 0 \rightarrow$ OK

- The Chair has contacted all current members asking to confirm whether they still intend to serve as 'active' member
- About 40% of members have not yet responded. Two reminders will be sent over the next 3 weeks. If still no response, action taken with National Societies to request removal of these members.

7. TC201 Wider Community (1)

- TC201 Nominated Members
- TC201 Corresponding members
- Close friends - wishing to contribute to the wider activities of TC201
→ If interested in joining TC201, please contact the Core Team.
- Loose friends – interested in being informed of the TC activities

TC201 friends

Geotechnical Aspects of Dykes and Levees and Shore Protection

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Host Member Society: United Kingdom

Short name: **Dykes and Levees** (TC201)

GeoWorld Group: [Geotechnical Aspects of Dykes and Levees and Shore Protection \(TC201\)](#)

 Sign-up to receive committee news



7. TC201 Wider Community (2)

- Interaction with ISSMGE TCs with direct and indirect overlap

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

- Interaction with ICOLD Working groups

Internal erosion (IWG-IE)

Overflow and Overtopping Erosion (IWG-OOE)

ACTION for TC201 Members:

Any other group/community to suggest, apart from National groups already represented in the TC201?

8. Task Forces & Call for ideas (1)

**Tentative list
of Task Forces**



Membership

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International Projects

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Contact

Technical Task Forces

- T1. Levee stability
- T2. Internal erosion
- T3. Overtopping/overflow erosion
- T4. Monitoring and Early Warning Systems
- T5. Numerical modelling & Digital twinning
- T6. Nature-based solutions
- T7. Site Investigation and Levee Geotechnical Characterisation
- T8. Collaborative experiments

Cross-Cutting Task Forces

- CC1. Education
- CC2. Collaboration with other TCs
- CC3. Academia-Industry Partnership
- CC\$. Database of Case Histories

8. Task Forces & Call for ideas (2)

Please respond to the questionnaire if you have not done so yet



<https://forms.office.com/e/4ecSPrQGtz?origin=lprLink>

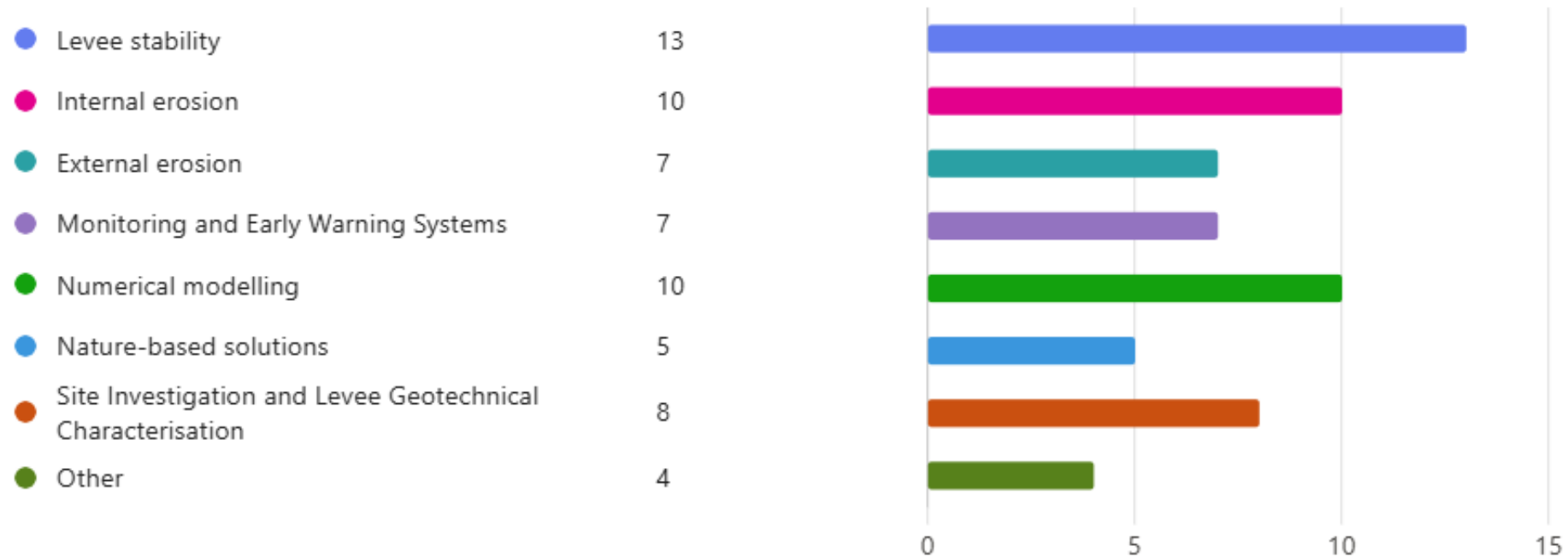
QUESTIONS ADDRESSED

- Technical Task Forces
- Cross-Cutting Task Forces
- Activities within a Task Force
- Activities at TC level

8. Task Forces & Call for ideas (3)

1. Below is a tentative list of Technical Task Forces. Please
 - i) select Task Forces you may wish to contribute to
 - ii) propose new or alternative Task Forces in 'Other' (list multiple options separated by semicolons)

[More details](#)



Additional Task Forces proposed

Collaborative experiments / Climate change and resilience of levees / Risk and reliability analysis

8. Task Forces & Call for ideas (4)

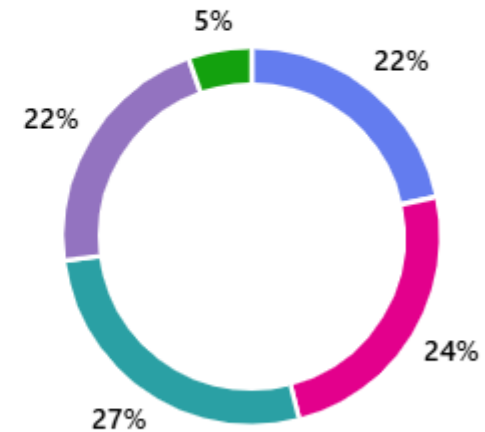
2. Below is a tentative list of Cross-Cutting Task Forces. Please

i) select Task Forces you may wish to contribute to

ii) propose new or alternative Task Forces in 'Other' (list multiple options separated by semicolons)

[More details](#)

● Education and Research Training	8
● Collaboration with other TCs	9
● Academia-Industry Partnership	10
● Database of Case Histories	8
● Other	2



8. Task Forces & Call for ideas (5)

3. Suggest activities within a Task Force (e.g., Research webinars, Case study Webinars, White Paper, Virtual Workshops) [More details](#)

15
 Responses

Latest Responses

"Interaction with levee authorities"

"I'm interest in organizing and participating to research webinars or case stu... "

...

8 respondents (53%) answered Case study for this question.



Special Issue on ISSMGE International Journal of Geoengineering Case Histories ?

8. Task Forces & Call for ideas (6)

4. Suggest activities at TC level (e.g., Hybrid 'Regional' Workshops, Technical Sessions at Major Conferences, Training courses, Round-robin exercises) [More details](#)

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Responses

Latest Responses

"Workshop together with interested TC104 members (physical modelling)"
 "In this moment the occasions for meeting the TC members at European level..."
 ...

8 respondents (50%) answered workshops for this question.



ADDITIONAL ACTIVITIES PROPOSED

- Industry-led case study sessions or “problems from practice” to foster academia–industry collaboration
- Techniques for Reinforcement or Renovation of Levees
- Best-Practice Guidelines
- Young researcher presentation forum

8. Task Forces & Call for ideas (7)

- The Core Team will tentatively form Task Forces based on expressions of interest (4-5 members per Task Force)
- Efforts will be made to maximise regional, gender, sectoral, and experience diversity
- Task Forces will be formed using a bottom-up approach, i.e. there should be a sufficient number of expressions of interest

- The Core Team will propose the composition of the groups; however, there is no obligation to follow these suggestions.
- Task Force kick-off meetings are expected to take place remotely in September. The first kick-off meeting should be attended by the Chair and/or Vice-Chair.

9. Past and future activities (1)

TC201 Report Techniques for reinforcement and renovation of levees

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TC201 - CALL FOR IDEAS
 ISSMGE IT Administrator | TC201 | 11-06-2026
 To TC201 Members and TC201 Wider Community.
 Please, help us shape the activities of TC201 by completing this 5-m
 ...
[Read More](#)

TC201 MEETING AT ICSMGE 2026 IN VIENNA
 Alessandro Tarantino | TC201 | 10-06-2026
 The next TC201 meeting will be held on 17 June 2026, from 13:00 to 13:45, in hybrid format.
[In-person attendance](#)
 Room 1.
 ...
[Read More](#)

TC201 REPORT - TECHNIQUES FOR REINFORCEMENT AND RENOVATION OF LEVEES
 Alessandro Tarantino | TC201 | 05-06-2026
 The TC201 Report *Techniques for reinforcement and renovation of levees* was prepared by members of the ISSMGE TC201 *Dikes and levees*. It aims to support practitioners in selecting appropriate methods for site-specific challenges while fostering knowledge exchange among international
 ...
[Read More](#)

Techniques for reinforcement or renovation of levees Final



May 2026

PREPARED BY
 Technical Committee on
 Geotechnical Aspects of Dikes and Levees
 (TC201)

Authors Part I and editors Part II:
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 Hirotohi Mori (Yamaguchi University, Japan)
 Cor Zwanenburg (Deltares, The Netherlands)

Citation: Van, M.A., Tao, P.Y., Tourment, R., Tarantino, A., Mori, H. and Zwanenburg, C. Techniques for reinforcement or renovation of levees. International Society of Soil Mechanics and Geotechnical Engineering (ISSMGE) – Technical Committee TC201 'Geotechnical aspects of dikes and levees', May 2026. Download <https://doi.org/10.53243/R0008>

9. Past and future activities (2)

TC201 Report Techniques for reinforcement and renovation of levees

- Prepared by members of the ISSMGE TC201 *Dykes and levees*.
- To support practitioners in selecting appropriate methods for site-specific challenges
- To foster knowledge exchange among international experts on traditional and innovative approaches.
- Part I → Overview of renovation and reinforcement techniques whereas
- Part II → Inventory of case examples of reinforcement and renovation techniques by TC201 members

Report download here

https://issmge.org/files/reports/TC201_reinforcement_renovation_report_May2026.pdf

9. Past and future activities (3)

International Projects supported by the TC201

(The conversion of some planned project workshops into TC201 workshops is under discussion)

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BEAVER4LIFE - Brief Analysis of Vulnerability for river Embankment Reinforcement (2026-2030)

Coordinator: Union of Municipalities of Faenza Romagna (URF), Italy
Scientific Coordinator: Professor Michela Marchi (University of Bologna, Italy)
Web link: TBC
Contact: michela.marchi@unibo.it

DIGITAL DIKES - A multiscale framework for risk assessment of Backward Erosion Piping (2026-2032)

Coordinator: Professor Vanessa Magnanimo (University of Twente, Netherlands)
Web link: <https://www.digital-dikes.nl/>
Contact: info@digital-dikes.nl

LIFE SANDBOIL - Natural-based solution to mitigate flood risk due to SAND BOILs reactivations along the Po River (2020-2025)

Coordinator: Professor Laura Tonni (University of Bologna, Italy)
Web link: <https://lifesandboil.eu/>
Contact: projectnews@lifesandboil.eu

ACTION for TC201 Members and Friends:

- **Report any other major projects relevant to TC201**

9. Past and future activities (4)

International Conferences

- **9th International Conference on Unsaturated Soils (UNSAT2027)**
June 6-9, 2027, Greater Boston, MA, USA
Abstract Deadline: 26 June 2026
→ A dedicated session on dykes and levees could be organised if there is sufficient critical mass
- **XVIII DANUBE-EUROPEAN CONFERENCE ON GEOTECHNICAL ENGINEERING**
9-12 June 2027, Budapest, Hungary
Abstract Deadline: Contact ASAP Edina Koch (Conference chair) at info@18decge.hu
→ A dedicated session on dykes and levees could be organised if there is sufficient critical mass
- **XXII Technical Dam Control International Conference**
14-17 September 2027
Abstract Deadline: TBC
<https://tkz.is.pw.edu.pl/> - Agnieszka Dąbska agnieszka.dabska@pw.edu.pl

ACTION for TC201 Members and Friends:

- **Contact the Core Team if you intend to submit an abstract to any of the above-mentioned conferences**
- **Put forward relevant conferences/workshops that can possibly include a TC201 session**

9. Past and future activities (5)

Interaction with 'TC220 Field monitoring'

- **One-day hybrid workshop focused on sharing experiences and best/worst practices in levee monitoring.**
→ Possibly liaised to stakeholder/open events organised within consortium projects
- **Introductory lectures (online)**
on instruments (or classes of instruments) used in levee monitoring, covering operating principles, advantages and limitations, installation procedures, and troubleshooting
- **Troubleshooting sessions (online)**
where researchers and professionals involved in monitoring can raise questions and discuss challenges related to monitoring systems and/or data processing.

ACTION for TC201 Members and Friends:

- **Contact the Core Team if you intend to submit an abstract to any of the above-mentioned conferences**
- **Put forward relevant conferences/workshops that can possibly include a TC201 session**

10. TC201 talks and posters presented at ICSMGE Vienna 2026

Location: Room M1

1.61_62

Date: Wednesday, 17/June/2026

1:45pm -	WE-01: Numerical Methods II Location: Room A	WE-02: Ground Improvement & Soft Soils & Reinforced Fill Structures Location: Room C	WE-03: Dykes and Levees & Tailing and Mine Wastes Location: Room M1	WE-04: Transportation I Location: Room M2	WE-05: Field Monitoring & System Performance Location: Room N1	WE-06: Young Engineers II Location: Room N2	WE-07: Deep Foundations II Location: Room 1.61_62	WE-08: Offshore & Risk Location: Room 1.85_86
4:15pm -	WE-09: Numerical Methods S II Location: Room A	WE-10: Micro to Macro & Geo- Education S Location: Room C	WE-11: Geotechnical BIM and DT & Machine Learning S Location: Room M1	WE-12: Transportation S Location: Room M2	WE-13: Field Monitoring & Site Characterization & Observational Method S Location: Room N1	WE-14: Tailing and Mine Wastes & Dykes and Levees & Megacities S Location: Room N2	WE-16: Slope Stability & Reinforced Fill Structures S Location: Room 1.85_86	

10. TC201 talks and posters presented at ICSMGE Vienna 2026



PRESENTATIONS - Room M1 – 1.45-3.45

1. An international report of TC201 on retrofitting and reinforcements of levees

Meindert Van¹, Yida Tao¹, Esther Rosenbrand¹, Cor Zwanenburg¹, Remy Tourment², Alessandro Tarantino³, Kenichi Maeda⁴, Hirotooshi Mori⁵

2. Durability of hydraulic structures reinforced with lime: a French onsite experience

Federica Bertola¹, Marcello Mutti¹, Jorrit Gillijns¹, Lucile Saussaye²

3. Developing a full-scale experimental set-up for the simulation of backward erosion piping

Elena Dodaro, Emanuele Tumedei, Ilaria Bertolini, Michela Marchi, Laura Tonni, Guido Gottardi

10. TC201 talks and posters presented at ICSMGE Vienna 2026



SHORT PRESENTATIONS & POSTERS -Room N2 – 4.15-5.45

4. Impact of a ditch on dike stability for uplift conditions

C. Zwanenburg, C. Cengiz, B.C. Noijons, M.P. Fransen

5. Reliability-based internal erosion analyses on the Szigetköz floodplain area

Edina Koch, Richard Ray, Mais Mayassah

6. Geotechnical insights for sustainable coastal protection: embankment seawall solutions in high-risk zones

Angelica Lou Dolor Casibua, Jose Carlo Eric Lasola Santos, John Michael Bueno Gargullo, Jose Raphael Lazaro Japlos

7. Impact of ITZ around unmixed soil-aggregates on hydraulic properties of earth levees material reinforced by deep soil mixing method

Myriam Duc¹, Juba Amrioui², Alain Le Kouby¹

8. Feedback on 10 years experience of soil mixing cut-off walls in levees of the Loire River

Lucile SAUSSAYE¹, Alain LE KOUBY², Sébastien PATOUILLARD³, Loic GERVAIS⁴

9. Appropriate shear strength evaluation method for river embankments consist of fine or gravelly soils

Takeshi Kodaka¹, Keita Lee², Masanori Ishihara³, Yuichi Kubo⁴

POSTERS

10. Estimation of the mobilized shear strength of soft clays under different loading and unloading conditions

Baris Trak

11. Investigating porewater pressure response in a dyke foundation soil under a hypertidal environment

Peter Rosvall, Craig Lake , Barret Kurylyk, Vincent Goreham, Farimah Arabchobdar

11. Any other business

TBC

12. Next TC106 meeting

Single TC meeting

Central Europe 15:00–16:00 CET
Australia: 23:00 – 00:00 AEST
China: 22:00 – 23:00us
US East: 09:00 – 10:00 ET
US West: 06:00 – 07:00 PT

Two TC meetings

Central Europe: 16:00–17:00 CET
US East: 10:00–11:00
US West: 07:00–08:00

Central Europe: 8.30-9.30 CET
China: 15:30–16:30
Australia: 18:30–19:30

ACTION for TC201 Members and Friends:

- **Express your preference**