

# INSIGHTS IN GEOSYNTHETIC-REINFORCED PILE-SUPPORTED EMBANKMENTS - PART 2

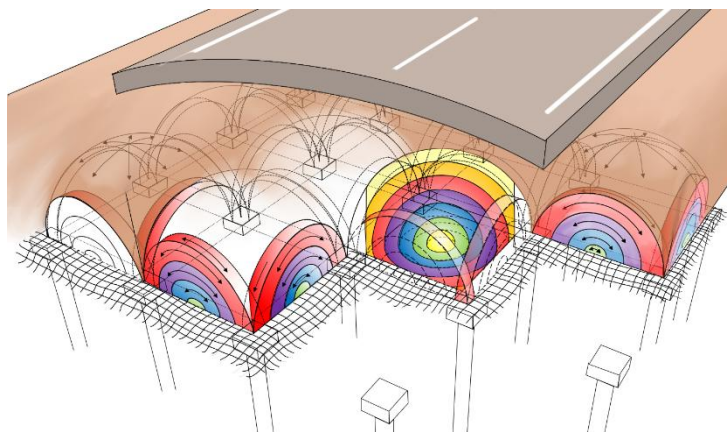
Following the highly successful webinar held on November 29, 2024, the ISSMGE TC211 is pleased to invite you to an advanced presentation by Dr. Suzanne van Eekelen. This supplementary session will delve deeper into the topic of Geosynthetic-Reinforced Pile Supported (GRPS) Embankments.

This presentation will guide the participants through the four components necessary for the safe and cost-effective design and construction of geosynthetic-reinforced pile-supported (GRPS) embankments:

- A well-validated design model that closely aligns with measurements
- A model factor that transforms design model results into 'characteristic' values, ensuring safety in over 99.7% of cases
- A set of partial factors, calibrated to achieve the Eurocode-required safety level
- Experience and lessons learned from practical applications

The presentation will start with a recap of Part 1, providing a summary and review of the initial webinar, establishing the foundation for understanding Part 2. Dr. van Eekelen will summarize the physics-based explanation of the observed behaviour from the previous lecture but will now include the effect of groundwater in a GRPS embankment.

Next, she will delve into the determination of the model factor and the set of partial factors. The presentation will conclude with real-world examples and lessons learned from cases involving failures or near-failures.



## About the Speaker

Dr. Suzanne van Eekelen is an adviser and researcher in geo-engineering. She is an expert in the field of geosynthetic reinforcement, in particular piled embankments. She also specializes in laboratory experiments and field monitoring. She received her MSc and PhD from Delft University of Technology in the Netherlands.

Suzanne has won several awards, including the IGS Award of the International Geosynthetics Society for her research on geosynthetic-reinforced pile-supported (GRPS) embankments.

Currently, she is involved in various consultancy and research projects, concerning retaining walls, industrial areas, forensic engineering, various applications of geosynthetics and durability of geosynthetics. Suzanne chairs the Dutch Design Guideline working groups 'Geosynthetic-reinforced Pile-supported Embankments', 'Retaining walls of reinforced soil' and the workgroup 'Reinforced Fill and Soil Nailing' for the Dutch Annex of Eurocode7.

Suzanne is a frequently invited guest speaker in many reputable geotechnical events, including ISSMGE TC-211 webinars.

## WHEN

Friday 4 April 2025

## START TIME

9:00 AM Central  
European Time  
6:00 PM Sydney

## LOCATION

Online (Zoom Link)  
<https://utsmeet.zoom.us/j/89658918418>

Participants can join the on-line presentation directly by using the provided link but can send an expression of interest to the Event's Contact to receive a reminder notification.

## EVENT CONTACT

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Dr Suzanne van Eekelen

