

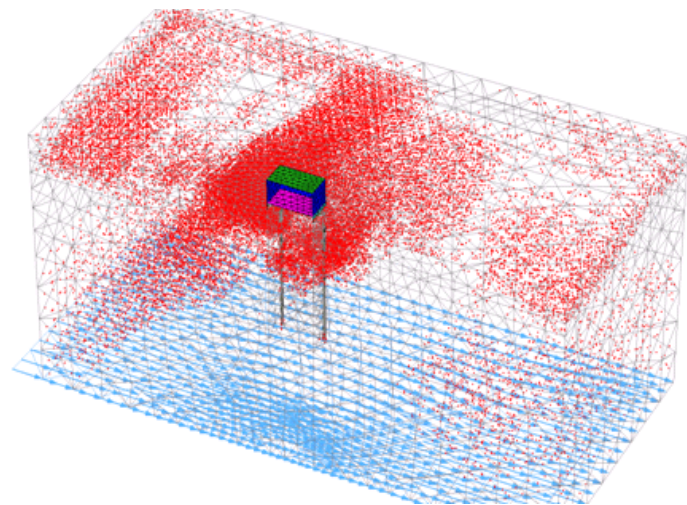
Induced Earthquakes in The Netherlands – impact on society and research results

Dr Mandy Korff

Deltares – Expert in risk management, forensic geo-engineering, soil structure interaction and impact of construction activities and earthquakes on structures

Seminar overview:

In the Northern part of The Netherlands, the 7th largest gas field in the world has been in production for over 40 years. The related seismicity has increased significantly over the last decade, which has led to large societal impact in the region. Since 2013, several studies have been performed by Dutch Research Institute Deltares for several parties, including the Dutch Ministry of Economic Affairs and the field operator NAM (Shell+Exxon). Relevant questions are: What are the risks for people, buildings, industry and infrastructure? What kind of strengthening measures for the buildings and infrastructures in the area are necessary and how should they be prioritized. How can the influence of the subsurface be taken into account? Uncertainties from the source of the earthquake, the deep subsurface, the shallow subsurface, the transfer to the structure and the structural fragility together determine the overall risk in the area. This lecture deals with the geotechnical aspects of these studies and the link between the geotechnical risk management and the societal issues.



When and where:

Tuesday, 19 April, 12:30 (sandwich lunch)
MIL Meeting Room, Engineering Department

Queries:

Stefan Ritter
sr671@cam.ac.uk

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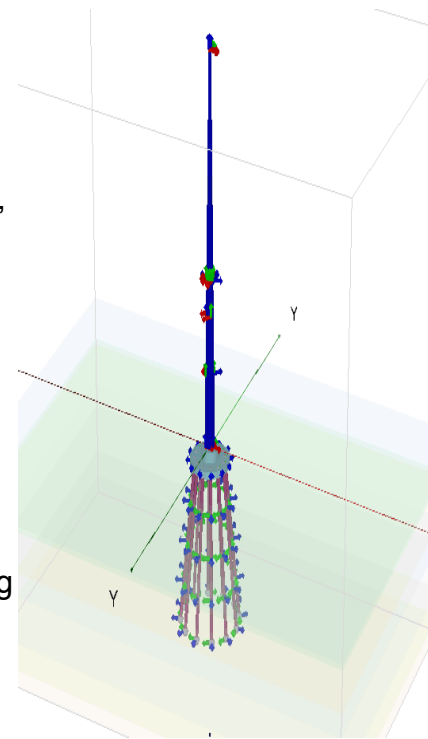
Short biography:

Ms. Korff received her PhD from University of Cambridge in 2013, where she worked with Professor Lord Robert Mair on the Response of Piled Buildings to the Construction of Deep Excavations. Mandy Korff graduated from Delft University of Technology as MSc. in 1999 in Civil Engineering. In 2000 she joined GeoDelft as a consultant and researcher in the field of foundations and underground construction. She gained experience in geotechnical risk management. Many of her projects included some sort of forensic engineering and impact assessment related to underground construction works.

Since Deltares was formed in 2008 she works as a strategic advisor, mainly for underground construction.

At present, Ms. Korff works as expert in the field of risk management, forensic geo-engineering, soil structure interaction and impact of construction activities and earthquakes on structures. She currently contributes to projects such as the Groningen earthquake studies, Amsterdam subway (North South line), the Delft railway tunnel and projects in Singapore. Since 2013 Ms. Korff is member of the Deltares Scientific Council and Chair of the Junior Scientific Council.

Ms. Korff is chair of the Geotechnical department of the Royal Institute of Engineers (KIVI) and the country representative for the International Society of Soil Mechanics and Geotechnical Engineering (ISSMGE). She is member of ISSMGE's TC204 and TC207 on Underground construction and Soil Structure interaction. In 2011 Ms. Korff chaired the 21st European Conference for Young Geotechnical Engineers.



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