



Individual Membership Form

Personal information

Title: **MSc**

Gender: (M/F) **M**

Name: **Kanning, Willem**

Suffix:

Mailing address (Street or Postal Box): **P.O. Box 5048**

City: **Delft**

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Phone number: **0031-641077096**

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Current affiliation: **Delft University of Technology**

Job title: **PhD researcher**

Education Background

Highest degree received: **Master of Science Hydraulic Engineering**

Received from: **Delft University of Technology, Delft, the Netherlands**

Major: **Civil Engineering**

Professional background

Professional background relevant to GEOSNet:

I received my masters in Hydraulic Engineering from TU Delft in 2005. I started to work as a researcher at TU Delft from the end of 2005. First fulltime on assessing the levee failures in New Orleans, next I started to work a PhD thesis which is supposed to be finished this year. My research focuses on the reliability on flood defences and more specifically the probability of failure of flood defence due to seepage erosion (piping) with heterogenous soils. This involves analysis of soil and model uncertainty, the influence of these on the flood defence using e.g. random field theories and the choice of optimal choices for reliability improvements in a risk framework. During the research I am involved as a consultant for government and industry in the field of quantitative flood risk analysis and cost benefit analysis.

Main reasons for your interest in GEOSNet and potential contributions to the network:

The main reasons for joining GEOSNet are keeping in touch with what's happening in the field and dissemination of own research to make future improvements.