Deltares

Enabling Delta Life

academy

3D modelling of Pile Groups using MPile

The behavior of pile groups under horizontal and/or vertical loads is often the subject of hefty discussions amongst practitioners. Typical discussions focus on the approach followed and the value of analyses results. It is common knowledge that different models produce different results. In too many cases, however, only one model is used in practice to predict the behavior of pile groups. This course will feature several popular models used in practice and focus on their advantages and disadvantages. In addition to exploring different models, this course will highlight the models available in MPile. MPile will be used for the analyses of pile groups, taking the interaction between piles into account.

One of the advantages of MPile is that users can quickly compare results obtained with different models. The different models available in MPile also allow for fast design of pile groups. A simple model is used for the preliminary design, whilst more complex models can be used to analyze the final design. Switching between models, while still maintaining common parameters and the layout geometry, gives the user more time to compare and evaluate results.

Objectives of the course:

- Participants will learn to choose the most appropriate calculation model available in MPile;
- Participants will learn the background necessary to work with different calculation models;
- Participants will make use of the latest version of MPile;
- Participants will learn how to get the most from the available MPile output.

Course subjects:
- Applications of MPile;
- Models available in MPile;
- Schematization/modelling;
- Parameter determination;
- Boundary conditions;
- Tips and tricks.

This course is aimed at:
- Design engineers working for contractors and consultants;
- Project managers of government agencies;
- Design engineers for offshore constructions.

Course leaders:
H.J. Luger MSc, Deltares.
J.L. Bijnagte MSc, Deltares.

Fee:
The costs for this 1 day course, from 9:30 to 17:00 hrs, is € 565,- excluding VAT.
50% discount for lecturers at centres of education.

Certificate:
We provide a certificate of participation.

Course date:
Friday, 27 October 2010.

Location:
Deltares, Stieltjesweg 2, 2628 CK Delft,
The Netherlands.

Registration:
Please use the electronic form for registration at www.deltaressystems.com and choose 'Agenda'.

Transportation:
From Schiphol Airport a train is leaving for Leiden Central Station every 20 minutes. Here you have to change trains to Delft Central Station (total travelling time approximately 45 minutes).

More information:
All presentations and discussions will be in English. For more information, please visit our website www.deltaressystems.com or contact the course coordinators, Carla van den Kieboom, Wendy Boerhave or Nancy Dijkhuizen, telephone +31 88 3357909 or e-mail: sales@deltaressystems.com.

Deltares Academy is a training facility of Deltares.

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