

SHIELD TUNNELLING IN SOFT SOILS
2 – 4 NOVEMBER 2010, DELFT, THE NETHERLANDS
<DRAFT> COURSE SCHEDULE

Tuesday 2 November 2010 - Chairman: Prof. Markus Thewes, Ruhr-Universität Bochum	
08.20	Registration
08.50	Welcome and introduction: <i>Hans Brinkman, Deltares / UNESCO-IHE</i>
09.00	Session A. Soft ground shield tunneling technology overview: <i>Prof. Markus Thewes, Ruhr-Universität Bochum</i>
10.20	Questions and discussions
10.30	Break
10.50	Session B. Face support and tailvoid grouting: <i>Prof. Markus Thewes, Ruhr-Universität Bochum</i>
11.15	Session C. Uncertainty and ground conditions - a risk management approach: <i>Martin van Staveren, Deltares / University of Twente/ Van Staveren Risk Management</i>
11.50	Session D. Shield tunnelling: aspects of geology: <i>Gerard Kruse, Deltares</i>
12.30	Questions and discussions
12.40	Lunch break
13.20	Session E. Stability of tunnel face and backfill grouting beyond the standard: <i>Adam Bezuijen, Deltares / Delft University of Technology</i>
14.20	Session F. Segment linings for shield machines: <i>Prof. Markus Thewes, Ruhr-Universität Bochum</i>
15.50	Questions and discussions
16.00	Break
16.20	Session G. Workshop TBM choice, face and grout pressure strategy: <i>Hans Brinkman, Deltares / UNESCO-IHE</i>
17.30	Adjourn
18.30	Dinner (sponsored by Herrenknecht AG)
	



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Wednesday 3 November 2010 - Chairman: Prof. Robert Mair, University of Cambridge	
08.30	Session H. Settlement control and protective measures for buildings during tunnelling: <i>Prof. Robert Mair, University of Cambridge</i>
10.00	Questions and discussions
10.10	Break
10.30	Session I. Modeling tunnelling in soft soil: <i>Prof. Günther Meschke Ruhr-Universität Bochum and Hans Brinkman, Deltares / UNESCO-IHE</i>
11.40	Session J. Monitoring at Amsterdam metro: <i>Frank Kaalberg, Witteveen+Bos</i>
12.30	Questions and discussions
12.40	Lunch break
13.20	Session K. Tunnelling induced building damage: <i>Prof. Jan Rots, Delft University of Technology</i>
14.10	Session L. Safety and tunnel installations: <i>Ronald Mante; Rijkswaterstaat</i>
15.00	Session M. Separation plants and the re-use of separated soil: <i>Sallo van der Woude, Van Hattum en Blankevoort / Delft University of Technology</i>
15.40	Questions and discussions
15.50	Break
16.10	(optional) Session N. Workshop PLAXIS 3D tunnelling: <i>Ad Verweij, Deltares</i>
17.50	Beverages in the conference room



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Thursday 4 November 2010 - <i>Chairman: Prof. Johan Bosch, Delft University of Technology / Rijkswaterstaat</i>	
09.00	Session O. Case study: North South metro line: <i>Prof. Johan Bosch, Delft University of Technology / Rijkswaterstaat</i>
09.50	Session P. Dynamics: <i>Paul Hölscher, Deltares</i>
10.40	Questions and discussions
10.50	Break
11.10	Session Q. Tour to the Deltares laboratory, model and soil investigation facilities: <i>Hans Brinkman, Deltares / UNESCO-IHE</i>
12.30	Lunch break
13.30	Session R. Soil improvement: <i>Prof. Almer van der Stoep, CRUX Engineering BV / Netherlands Defence Academy/ University of Twente</i>
14.20	Session S. Ground freezing for underground construction: <i>Helmut Hass, CDM Consult GmbH</i>
15.10	Questions and discussions
15.20	Break
15.40	Session T. Logistics: <i>Thomas Walliser, Zueblin</i>
16.30	Session U. Applied risk management, the bored tunnel Groene Hart case: <i>Hans Brinkman, Deltares / UNESCO-IHE</i>
17.20	Questions and discussions
17.30	Adjourn



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Friday 5 November 2010 (optional)	
09.00	Departure from Delft
10.30	Visit Amsterdam metro tunnel