CEN/TC250/SC7 Seminar - Paris



DESIGN WITH 2ND GENERATION
EUROCODE 7
GUIDELINES AND GEOTECHNICAL DESIGN
EXAMPLES





DEVELOPMENT OF 2nd GENERATION OF EUROCODE 7

Since 2015 project teams and taskgroups of CEN/Technical Committee 250 "Structural Eurocodes" / Sub-Committee 7 "Geotechnical design" have been involved in developing a 2nd Generation Eurocode 7. In 2024 the three parts of Eurocode 7 went for Formal Vote, terminating this intensive process. Now is the time for the National committees to draft their National Annexes, which should be ready by 2027.

Many new topics have now been included in Eurocode 7: ground model, groundwater issues, rock engineering, pile groups and rafts, reinforced fill structures, soil nails, rock bolts and ground improvement.

In the past 4 years, Taskgroups in SC7 have developed guidelines for the application of the new Eurocode and set up examples for testing the new code.

These guidelines and examples will be presented and discussed in 1.5 hour sessions during the 2 day seminar.

WHAT IS PRESENTED:

Guidelines on designing with the 2nd Generation Eurocode 7:

- 1. How to obtain representative ground parameter values from data of individual geotechnical tests
- 2. What is a Ground Model and how is it derived
- 3. What other probabilistic methods next to partial factors are available for use in geotechnical ULS-design
- 4. What is the link between design and execution made in Eurocode 7 for the daily practice

Design examples on the 2nd Generation Eurocode 7:

Groundwater Limit States, Rock engineering, Slopes, Spread foundations, Piles, Retaining Structures, Anchors, Reinforced Fill, Soil nails, Rock Bolts and Ground Improvement.

Guidance on setting up the National Annex:

Explaining the TC250-rules on drafting the National Annex, Link with the overall code EN1990/1991, Structural codes (EN1992 – EN1999) and Seismic design code EN1998.

PARTICIPATION

The location is the Université Gustave Eiffel, 5 Boulevard Descartes, Champs-sur-Marne, Paris The fee for participating is € 100,-.

Recommended hotels are closed to "RER A" stations: Gare de Lyon (Place Louis Armand 75012 Paris) or Nation (Place de la Nation, 75012 Paris).

Detailed programme and other information see below.

You can register for the Seminar through the following link;

https://v4.event-vert.org/en/sc7

DESIGN WITH 2ND GENERATION EUROCODE 7 - GUIDELINES AND GEOTECHNICAL DESIGN EXAMPLES

Day 1 08.30	21-10-2024 - 8.30 – 17.30 <u>Plenary meeting</u> <u>Amphitheatre</u>	Room B015-019	Day 2	: 22-10-2024 - 8.30 - 16.30 <u>Amphitheatre</u>	Room B015-019
	Welcome and introduction A van Seters, chairman SC7		O8.30 Session 1 Pile foundations - Design examples Introduction - C. Moormann Example pile testing and ground investigation TG B2 - P. IJnsen Benchmark - L. Batali Example TG B1 - B. Janssen Discussion		Session 2 Rock engineering - Design examples Introduction - L. Lamas Two Examples TG B2 - J. Estaire, W. Bogusz Benchmark – G. Franzen Example Rock bolt slope TG B1 - R Ghazal Discussion
09.00	Session 1 Representative values – Guideline General Concepts - J. Estaire Value determination procedures - T. Orr Special topics - J. Sorgatz	Session 2 Ground Model – Guideline Introduction - H. Garin Purpose and process of the Ground Model - M. Baldwin Input basis - M. Baldwin Ground Model uncertainties - P. Reiffsteck Examples - K-J van der Made and R. Wudtke			
10.30	Coffeebreak		10.00	Coffeebreak	
11.00	Reliability analysis - Guideline Introduction guideline contents - T. Schweckendiek Uncertainties and reliability methods - J. Spross Application/benchmark examples - S. Commend / K. Lesny Hands-on example	Design/Execution - Guideline Introduction - D. Hard General Concepts Plans required by the Code Examples	12.00	Ground improvement - Design examples Introduction - N Denies Example TG B2 - K. Trybocka Example TG B1 - P. Pandrea Discussion Lunch	Slopes and Soil nailed structures - Design examples Introduction - N. Maca Example on soil slope - TG B1 – S. Kamp Example Soil nailed slope - TG B2 - N. Maca Example on rock slope TG B1 - C. Reilly Discussion
12.30	Lunch		13.30	Plenary meeting Links between EN1997 and other Eurocodes	
14.00	Design examples (TG B1/B2) – Overview L Batali, Convenor TG B2			UK approach to preparing second- generation National Annexed – A. Bond	
14.30	G. Franzen, Convenor TG B1 Spread foundations - Design	Retaining structures and anchors - Design	14.00	EN1997 and Concrete codes EN1992 & EN206 - K. Beckhaus	
	examples Introduction - K Lesny Example TG B2 - W Bogusz	examples Introduction - S Burlon Example TG B2 - S. Foti	14.30	EN1997 and Basis of design EN1990 - <i>A. van Seters</i>	
	Benchmark – G. Franzen Example TG B1 - F Deckner Discussion	Benchmark – <i>L. Batali</i> Example TG B1 - <i>T. Le Cor</i> Discussion	15.00	EN1997 and Steel code EN1993-5 - O. Moller	
16 .00	Coffeebreak		15.30	EN1997 and Seismic codes EN1998 – S. Foti	
16 .30	Hydraulic design - Design examples Introduction - A. van Seters Example UPL/HYD TG B2 - J. Perez Romero Example Grouting TG B1 - B.	Reinforced Fill - Design examples Introduction – N. Freitag Example Reinforced slope TG B2 - H. Hangen Example on Reinforced retaining wall TG B2 - H. Hangen Example TG B1 - I. Puig Discussion	16.00	Closure	

Discussion

Ashcroft Discussion