

Participants

Any individual professional interested in training on the Eurocodes and particularly in Geotechnical Design may apply for participation. However, an average of three participants from each country will have the possibility to participate.

Priority will be given to participants recommended by National Authorities and/or National Standardisation Bodies.

A "first come, first served" policy will be applied for registration acceptance as there is a limited number of participants.

Participants can come from EU Member States, EFTA Member States and EU Candidate Countries.

Event Registration

The application for participation is individual. Interested participants are requested to register online at:

<https://jrc-meeting-registration.jrc.ec.europa.eu>

The registration site is open from 1 April 2013. The **deadline for application** in the workshop registration site is **17 May 2013, 12:00**.

Shortly after application, a confirmation of registration acceptance will be sent to the applicant by the Organising Committee.

Attendance Fees

No registration/attendance fees are requested from the participants. They are responsible for their own travel, accommodation and subsistence costs, which will not be reimbursed by the European Commission.

The participants should take care of their own travel and accommodation arrangements.

Workshop Material

Relevant materials will be distributed to the participants.

Venue

Joly Theatre, Hamilton Building, Trinity College, College Green, Dublin 2, Ireland

Language

English (no translation will be provided).

Organising Committee

A. Pinto, S. Dimova, B. Nikolova, M. Poljanšek and C. Carniel
Joint Research Centre

A. Bond
CEN/TC250 Sub-committee 7 on Geotechnical Design

J. Wickham
Ireland's Department of the Environment, Community and Local Government

With the Support of

European Commission
DG Enterprise and Industry: V. Leoz Argüelles, M. Fuchs
Joint Research Centre: A. Pinto, S. Dimova

CEN/TC250: J.-A. Calgaro (Chairman), M. Greenley (Secretariat)
CEN Management Centre: G. Ascensao

Ireland's Department of the Environment, Community and Local Government: J. Wickham

Further Information

Eurocodes - Geotechnical Design Workshop Secretariat
European Commission
Joint Research Centre (JRC)
ELSA, IPSC
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<http://eurocodes.jrc.ec.europa.eu>

The European Commission website on the Eurocodes

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The poster features the European Commission logo at the top, consisting of the flag and the text 'European Commission'. Below this, the title 'EUROCODES BACKGROUND AND APPLICATIONS' is written in large, bold, black letters. Underneath, 'GEOTECHNICAL DESIGN WITH WORKED EXAMPLES' is written in red and black. The dates '13-14 JUNE 2013' and location 'DUBLIN, IRELAND' are prominently displayed. A large red and white curved graphic element is on the right side. At the bottom, it lists the organizing and supporting bodies: 'ORGANISED AND SUPPORTED BY EUROPEAN COMMISSION DG ENTERPRISE AND INDUSTRY JOINT RESEARCH CENTRE EUROPEAN COMMITTEE FOR STANDARDIZATION CEN/TC250 - SC 7 IRELAND'S DEPARTMENT OF THE ENVIRONMENT, COMMUNITY AND LOCAL GOVERNMENT'. A small blue rectangle is at the bottom right.

Towards the Eurocodes Era

The Eurocodes have reached the final stage of national implementation by the Member States.

The Eurocodes are becoming the European-wide means for structural design of works contributing towards an internal market with free circulation of construction products and services. The potential opportunities stemming from cross-border trade are of interest to the entire industry, the design and construction sectors of the civil engineering and building industries.

To achieve an adequate application of the Eurocodes in the Member States, all involved actors, including National Standardization Bodies, Technical and Scientific Organisations and especially, the design and construction industry, must be prepared and ready to use them. For this purpose and in line with the Commission Recommendation of 11 December 2003 (2003/887/EC), technical training, continuing professional development and university courses should be arranged and encouraged at national and international level. Training of staff is the responsibility of industry, in cooperation with National Authorities and National Standardisation Bodies.

A strategy and a general programme for promotion and training on the Eurocodes have been established through the project: "Support to the implementation and further development of the Eurocodes" (JRC report: <http://eurocodes.jrc.ec.europa.eu/doc/EUR22857EN>). Three levels of training are included in the programme:

- o Level 1 – the policy of Eurocodes implementation, National Annexes, co-existence with National Codes, etc.;
- o Level 2 – introductory courses for each individual Eurocode;
- o Level 3 – comprehensive courses with design examples of a number of typical structures using a particular package of Eurocodes.

The European Commission contributes towards consistency in the adoption and use of the Eurocodes in the Member States and to facilitate training and awareness campaigns. The website "Eurocodes: Building the future" (<http://eurocodes.jrc.ec.europa.eu>) serves as a platform for the collection, exchange and dissemination of training and promotional material and information.

<http://eurocodes.jrc.ec.europa.eu>

The European Commission website on the Eurocodes

Objectives

This workshop (Level 2/3) with emphasis on worked examples intends to contribute towards the transfer of background knowledge and expertise of Eurocode 7 writers (CEN/TC250 Sub-Committee 7) to potential trainers at national level and Eurocode users.

The principal objectives of the workshop are to:

- o transfer knowledge and information to representatives of key organisations/institutions, industry and technical associations in Member States;
- o provide state-of-the-art training material, background information and worked examples to Eurocodes trainers and users;
- o facilitate exchange of views, networking and cooperation.

Preliminary Programme

The workshop will commence in the morning of June 13 and conclude in the afternoon of June 14. The workshop will include parallel presentation of the Eurocode 7 general rules, basic design principles and design methods, and relevant worked examples. The workshop sessions will address:

- o the design of shallow foundations, gravity walls, embedded walls, and deep foundations;
- o the ground investigation and testing process;
- o the slope stability and hydraulic failure.

More details on the workshop sessions and program can be found at the Eurocodes website at: <http://eurocodes.jrc.ec.europa.eu>

Lecturers

Dr Andrew Bond - Director, Geocentrix Ltd, Banstead, UK, Current Chairman TC250/SC7 (2010-now)

Professor Trevor Orr - Department of Civil, Structural and Environmental Engineering, Trinity College, Dublin, Ireland, Convenor of TC250/SC7/EG3 Model Solutions (2011-now)

Professor Giuseppe Scarpelli - Università Politecnica delle Marche, Ancona, Italy, Current Vice-Chairman TC250/SC7 (2004-now)

Dr Bernd Schuppener - Former Head of Geotechnics, Federal Waterways Engineering and Research Institute (BAW), Karlsruhe, Germany, Past Chairman TC250/SC7 (2004-2010)

Agenda

Thursday, June 13

- 10:00 – 10:30 Welcome addresses and introduction
J. Wickham, Ireland's Department of the Environment, Community and Local Government
A. Pinto, DG JRC, European Commission
A. Bond, Chairman TC250/SC7
- 10:30 – 11:00 Coffee break
- 11:00 – 12:30 Basis of design : EN 1990 and EN 1997-1
Worked examples: combination of actions
A. Bond, B. Schuppener
- 12:30 – 13:30 Lunch break
- 13:30 – 15:00 Shallow foundations: design of spread foundations
Worked examples: footing design to DA1/2/2*/3
G. Scarpelli, T. Orr
- 15:00 – 15:30 Coffee break
- 15:30 – 17:00 Retaining structures I : design of gravity walls
Worked examples – T-shaped wall to DA1/2/2*/3
A. Bond, B. Schuppener

Friday, June 14

- 09:00 – 10:30 Ground investigation and testing: EN 1997-2
Worked examples – selecting characteristic values
B. Schuppener, A. Bond
- 10:30 – 11:00 Coffee break
- 11:00 – 12:30 Slope stability and hydraulic failure: design of slopes and embankments, hydraulic failure
Worked examples – HYD and UPL limit states
T. Orr, B. Schuppener
- 12:30 – 13:30 Lunch break
- 13:30 – 15:00 Retaining structures II: design of embedded walls
Worked examples – sheet pile wall with anchor
A. Bond, G. Scarpelli
- 15:00 – 15:30 Coffee break
- 15:30 – 17:00 Deep foundations: design of pile foundations - by testing and calculation
Worked examples – pile design to DA1/2/2*/3
T. Orr, A. Bond
- 17:00 – 17:30 Conclusions and closure
DG JRC, European Commission

There will be a dedicated "Discussion and Questions" part in each session