Workshop - Bridge Design to Eurocodes, Vienna, October 4-6, 2010

Eurocodes: Implementation and Further Development

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http://eurocodes.jrc.ec.europa.eu/
Outline

• Eurocodes Implementation
  ➢ Role of JRC
  ➢ Implementation Progress

• Eurocodes: Training and Promotion

• Further Development of the Eurocodes
The contribution of the JRC in the framework of the MoU with DG ENTR (2005 -…)

- **IT tools**
- **Promotion and training** strategies, training and promotion activities
- **Further Development:**
  Set-up and coordination of scientific networks for new materials,
  New programming Mandate, …
- **Extension of European Standards** to other Basic Requirements for Construction Works (BWRs)

**Cooperation:**
(EC, CEN, MS and NSBs, industry)
Development of specific informatics tools (IT tools):

1. Database for the NDPs (NDPs database) (31/03/06)
2. Eurocodes Website (30/11/06)
3. Database for Background Documents
4. Centralized help-desk for maintenance

http://eurocodes.jrc.ec.europa.eu
The Eurocodes …Implementation Progress →
Country Standard Transposing a European Standard

- **National Part**
  - (Differing from country to country)

- **Harmonized Part**
  - (the same for all EU countries)

BSI EN 1992
DIN EN 1992
AFNOR EN 1992
UNI EN 1992
National Authorities and National Standards Bodies, when an EN Eurocode Part is made available, should:

- ........

- Step 3: Publish the National Standard transposing the EN Eurocode and the National Annex (with NDPs)

- Step 4: Adapt, as far as necessary, their National Legislation so that the EN Eurocode Part can be used on their territory → (2010)
Publication of National Annexes (NDPs + ) until 2010 (58 parts)

(September, 2010)
Training and Promotion
Training and international promotion

In this series:

**Booklets**

- B1: The Eurocodes: Implementation and use
- B2: The role of EN 1990: the key head Eurocode
- B3: The Eurocodes and construction products
- B4: The Eurocodes: Supporting EU policies and increasing competitiveness
- B5: The Eurocodes: Use outside EU
- B6: The Eurocodes and cooperation in the Euro-Mediterranean area

**Leaflets**

- L1: The Eurocodes: What are they?
- L2: The Eurocodes: Getting prepared
- L3: The Eurocodes: Increasing competitiveness
- L4: The Eurocodes: Opportunity to innovate

International workshops

Training workshops

all documents are available at the JRC Eurocodes website
Three (3) levels of training:

• **Level 1** which will deal with policy of Eurocodes implementation, National Annexes, co-existence with National Codes, the Eurocodes system, etc. and these courses will be aimed at National Authorities, National Standards Bodies (NSBs) and senior personnel in the companies;

• **Level 2** which will be *introductory courses to each individual Eurocode* (average duration 1 day);

• **Level 3** which comprehensively describes *design examples* of a number of typical structures using a particular package of Eurocodes.
Eurocodes: Background and Applications
Brussels, 18-20 February 2008
Eurocodes: Background and applications (cont’d)

- 320 participants, 60 lecturers
- all Eurocodes covered (-EC6)
- Message from minister Turk (SI) and vice-minister Mihalevski (BG)
Training and promotion: future actions
(Level 2/3 training workshops)
The following workshops on Eurocodes are scheduled:

- **Design of Bridges** with the Eurocodes
  Programme coordination: Steve Denton (HG Bridges)
  3 days, 4-6 Oct 2010, Vienna

- **Eurocode 8: Seismic Design of Buildings** (RC and Steel)
  Programme coordination: Eduardo Carvalho (SC8)
  2 days, 10-11 Feb 2011, Lisbon

- **Eurocode 2: Design of Reinforced Concrete Buildings**
  Programme coordination: Giuseppe Mancini (SC2)
  2 days, 2011, Brussels (tbc)
Seismic Design of Buildings

10-11 Feb 2011

Lisbon

Registration deadline December 15

[https://jrc-meeting-registration.jrc.ec.europa.eu](https://jrc-meeting-registration.jrc.ec.europa.eu)
Moscow workshop (2008, ..., 2010)

- **Aim**: gather and make available information on EU and Russia standardisation systems.
- **Support from** TAIEX, CMC, CEN/TC250
FURTHER DEVELOPMENT

- New **materials**: FRP, glass, ...

- New **fields of design**: robustness, existing structures, membrane structures, ...

- **Sustainability** (environmental): recyclability, durability, use of environmentally compatible materials, energy issues, ...
Thank you for your attention

Bridge Design to Eurocodes

4-6 Oct 2010

Austrian Federal Ministry for Transport, Innovation and Technology

Vienna

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