Codes, standards and information sources

Some questions to address
Why have standards?
Why have codes?
What are the differences between codes and standards?
What and where are the ‘other information sources’?
What other information is needed, where are the knowledge gaps?
How do we achieve effective feedback?
How do we share information more effectively?
What work is required – research, working groups?
Identify some key actions?
Codes, standards and information sources

Some background and the need for codes, standards and information sources

• A standard is a technical publication that is used as a rule, guideline, or definition. Essentially, it is a consensus-built, repeatable way of doing something. Standards are created by bringing together all interested parties such as manufacturers, consumers, and regulators of a particular material, product, process, or service.

• A code (of practice) is a set of rules according to which people in a particular profession are expected to behave

• Other information sources generally supports the standards and codes

• To ensure a consistent approach, and good practice achieved
• To meet required levels of safety or reliability
Codes, standards and information sources

Need for codes, standards and information sources

Recent Failures

• There have been a number of recent structural failures worldwide, some of which have had fatal consequences.

• What lessons can we learn in relation to codes, standards and good practice?
Recent Failures

- Gerrards Cross – June 2005
- Boston Tunnel – July 2006
- Montreal, de la Concorde Viaduct – September 2006
- Minneapolis, I-35W Bridge – August 2007
- China – August 2007
- India – August 2007
- Pakistan – September 2007
- Vietnam – September 2007
- Dubai – November 2007
- Bruce County, Canada – November 2007
- Nepal – December 2007
Gerrards Cross, UK - 2005
Montreal Bridge - 2006
Minneapolis Bridge - 2007
Clyde Arc Bridge - 2008
Bridge GE 19 - 2008
Other Recent Failures
Post-tensioned Structures
Concrete Deterioration
Suspension and Cable Stayed Bridges
Bridges Susceptible to Scour
Severn Bridge
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Design standards - Eurocodes

- Implementation of Eurocodes
- Impact of Eurocodes
- Feedback on Eurocodes usage
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• Traceability of standard and code requirements – need for commentaries giving background to standards

• Gaps in current knowledge

• Feedback on standards and guidance
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Standards, specifications and guidance

• Design
• Construction
• Different materials, products, systems and techniques
• Management and maintenance
• In-service issues
Codes, standards and information sources

Information sources

• Central sources of information particularly good practice guidance
• Central sources of research information
• Networks and working groups
• National organisations
• Websites
• Newsletters
Finally

Did the designer allow for this – what standard!
Codes, standards and information sources

• Discussion
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