Panel discussion

Andrew Bond & Malcolm Bolton

Discussion topics

Link between EC7 and field observations

Should additional information beyond requirements lead to reduced safety factors?

Do we need partial factors on materials if we take serviceability checks seriously with appropriate SI?

Illogicality of specifying a partial factor on strength without specifying which strength (peak, critical state, residual) to apply it to

Should Eurocode 7 be simplified?
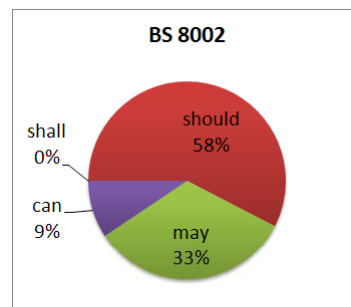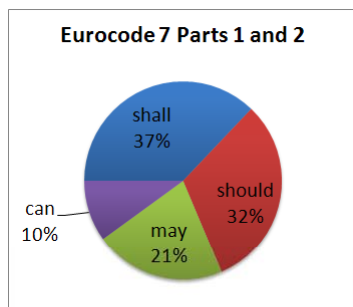
John Dunnicliff's concern about dogmatism

Dogmatism must not be used where engineering tasks require judgement

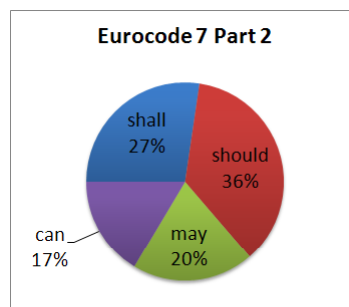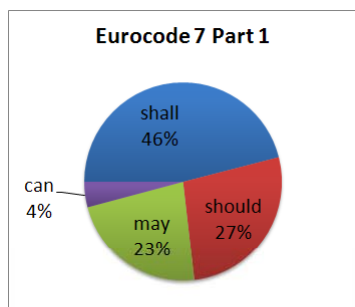Therefore the word 'shall' must be avoided for these tasks

There is a need to review this aspect of Eurocodes and change 'shall' to 'should', 'may', 'can', or 'might', as appropriate

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Verb types used in Eurocode 7 vs BS 8002

Eurocode 7 Parts 1 and 2

shall 37%
should 32%
may 21%
can 10%

BS 8002

should 58%
may 33%
can 9%
shall 0%

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Verb types used in Eurocode 7

Eurocode 7 Part 1

shall
46%

can
4%

should
27%

may
23%

Eurocode 7 Part 2

shall
27%

should
36%

can
17%

may
20%

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