Eurocodes Implementation
Republic of Ireland Position

Jim Mansfield
Consulting Engineer
Liaison Engineer EN 1990 & 1991
National Eurocodes Advisory Committee Chairperson
Part of study team EN 1992
Eurocodes Implementation

- NSAI is responsible for transposing Eurocodes as ISENs in Ireland and for the content of the accompanying National Annex.

**EN 1990 – Eurocode: Basis of Structural Design**
1 part 1NA

**EN 1991 – Eurocode 1: Actions on Structures**
10 parts 4NA + 4Draft + Study

**EN 1992 – Eurocode 2: Design of Concrete Structures**
4 parts Study

**EN 1993 – Eurocode 3: Design of Steel Structures**
20 parts 1NA + 18Draft

**EN 1994 – Eurocode 4: Design of Composite Structures**
3 parts 1Draft

**EN 1995 – Eurocode 5: Design of Timber Structures**
3 parts 1Draft

**EN 1996 – Eurocode 6: Design of Masonry Structures**
4 parts Study in progress

**EN 1997 – Eurocode 7: Geotechnical Design**
2 parts 1NA available

**EN 1998 – Eurocode 8: Design for Earthquake resistance**
6 parts Not generally applicable

**EN 1999 – Eurocode 9: Design of Aluminium**
5 parts No specific Irish NA

- 7 National Annexes have been published to date
- Up to 30 more will be issued for public comment in the coming months
- Majority will be published during 2008
- NSAI are currently working in partnership with the Department of Environment Heritage and Local Government, other State authorities and Industry to carry out studies on certain parts of the Eurocodes with the aim of developing National Annexes
**Eurocode Studies**

**STUDY 1 Actions on Structures  Fire (Funded by DEHLG)**
- Completed  National Annex produced
  - EN 1991-1-4 Actions on Structures–General actions–Wind Loads
- In progress  Comparative study complete  Wind Map for Ireland to be produced
  - Cooperation with UK
  - EN 1991-1-2 Actions on Structures–General actions–Actions on structure exposed to fire

**STUDY 2 Design of Concrete Structures (Jointly funded by ICF & DEHLG)**
- EN 1992 Design of Concrete Structures
- Comparative studies in progress to be completed 2008

**STUDY 3 Design of Masonry Structures (Jointly funded by ICF & DEHLG)**
- EN 1996 Design of Masonry Structures
- Comparative studies in progress to be completed 2008

**STUDY 4 Design of Bridges (Funded by NRA)**
- Various Eurocode Parts  Road sections only
- Studies in progress to be completed 2008

Studies funded by Coillte have taken place into timber structures
Use
• Use of Eurocodes is now acceptable but compliance with Building Regulations would need to be shown
• Eurocodes will be mentioned as permitted documents when a critical mass of National Annexes is published. This will involve packages such as actions, concrete, steel or masonry structures etc
• Irish National Annex must be used in Ireland.
• Date of implementation is 2010

Training
• Eurocodes Roadshow 2005
• - NSAI, NEAC, Engineers Ireland
• - held in Dublin, Cork and Limerick
• Proposed Eurocodes seminar 2008 disseminating knowledge
• Active participation in Brussels seminar February 2008