4th Working Group and 5th Management Committee Meetings and Joint Workshop with COST Action E55

COST Action TU0601 Robustness of Structures

21st and 22nd of September 2009
Ljubljana, Slovenia

Local Organizer
Dr. Goran Turk
Faculty of Civil and Geodetic Engineering
University of Ljubljana
Jamova 2
1000 Ljubljana
Slovenia

Action Chair
Prof. Michael Faber
Institute of Structural Engineering (IBK)
ETH Zurich
HIL E23.3, Wolfgang-Pauli-Str. 15
CH-8093 Zurich
Switzerland

Meeting Venue
Faculty of Civil and Geodetic Engineering
University of Ljubljana
Jamova 2
1000 Ljubljana
Slovenia
### Joint Workshop with COST Action E55 – Presentation of Factsheets

#### Time: 09:15 – 10:45

**Theme: Experience**

| Assessment of failure and malfunctions – general | Radu Bancila | TU0601 |
| Assessment of failure and malfunctions – timber structures | Matthias Frese | E55 |
| Failure template | Tomi Toratti | E55 |
| Robustness ‘experiences’ from failed timber structures | Jorgen Munch-Andersen and Phillip Dietsch | E55 |

**Discussion**

#### Coffee break

**Time: 10:45 – 11:00**

### Joint Workshop with COST Action E55 – Presentation of Factsheets

#### Time: 11:00 – 12:00

**Theme: Principles**

| Robustness – theoretical framework | John Sørensen | TU0601/E55 |
| Robustness – acceptance criteria | Enrico Rizzuto | TU0601 |

**Discussion**

#### Lunch

**Time: 12:00 – 13:00**

### Joint Workshop with COST Action E55 – Presentation of Factsheets

#### Time: 13:00 – 14:00

**Theme: Exposures**

| Probabilistic modelling of exposure conditions | Ton Vrouwenvelder | TU0601 |
| Modelling of human errors | Ton Vrouwenvelder, Milan Holicky and Miroslav Sykora | TU0601 |
| Moisture | Jochen Köhler and Gerhard Fink | E55 |

**Discussion**
Joint Workshop with COST Action E55 – Presentation of Factsheets

Time : 14:00 – 15:15
Theme : Vulnerability

General aspects, modelling and analysis
Material – Timber, General
Leslaw Kwasniewski 
Sven Thelandersson and 
Daniel Honfi 
TU0601
TU0601

Material – Timber, Ductility
André Jorissen and Massimo Fragiacomo
E55

Discussion

Coffee break
Time : 15:15 – 15:45

Joint Workshop with COST Action E55 – Presentation of Factsheets

Time : 15:45 – 17:00
Theme : Robustness assessment and implementation

Robustness requirement / criteria in codes, regulations and best-practice guides
Dimitris Diamantidis 
TU0601

Categorisation and assessment of robustness related provisions in European standards
Harikrishna Narasimhan and 
Michael Faber
TU0601

Discussion

Actions TU0601 and E55 Steering Committee Meeting
Time : 17:30 – 18:00
Chairs : Michael Faber and Jochen Köhler

Dinner
Time : 20:00
Joint Workshop with COST Action E55 – Presentation of Factsheets

Time: 08:30 – 09:45
Theme: Implementation

Earthquake and robustness for timber structures
Jorge Branco

System reliability – ductility and redundancy
Poul Henning Kirkegaard

Robustness design of timber structures
Phillip Dietsch

Discussion

Coffee break
Time: 09:45 – 10:15

General Discussion on Identified Topics – Joint Session with Action E55
Time: 10:15 – 11:00

Parallel Working Group (WG) Meetings – Discussion, presentation and planning of work
Time: 11:00 – 12:30

WG 1 Meeting
Chair: John Sorensen

WG 2 Meeting
Chair: Ton Vrouwenvelder

WG 3 Meeting
Chair: Marios Chryssanthopoulos

Lunch
Time: 12:30 – 13:30

Parallel Working Group (WG) Meetings – Discussion, presentation and planning of work
Time: 13:30 – 15:00

WG 1 Meeting
Chair: John Sorensen

WG 2 Meeting
Chair: Ton Vrouwenvelder

WG 3 Meeting
Chair: Marios Chryssanthopoulos

Coffee break
Time: 15:00 – 15:30
Management Committee (MC) Meeting
Time : 15:30 – 16:15
Chair : Michael Faber

Agenda
- Adoption of agenda
- Approval of minutes of last MC meeting in Coimbra
- Approval of workshop support grant
- Report / news from the COST Office
- Approval of membership – Croatia
- Cooperation with related COST Actions
- Update about COST TUD Domain Annual Progress Conference in Brussels
- Progress report of Working Groups
- Status of Activity 1
- Planning of future work of Action
- Planning of future meetings of the Action
- Publications, dissemination and outreach activities
- Web news – online publication of presentations
- STSM presentation of Eduardo Cavaco – “Robustness of reinforced concrete bridge beams under corrosion”
- Any other business (AOB)
- Closing