



# SAFERELNET

**Safety and Reliability of Industrial Products, Systems and Structures**

## SAFERELNET Final Meeting

Instituto Superior Técnico, Congress Centre

Lisbon, 20 – 21 February 2006

**Monday, 20<sup>th</sup> February**

|       |   |
|-------|---|
| 08h30 | <i>Registration</i>   |
| 09h00 | <i>Opening Session - C. Guedes Soares</i>   |
| 09h15 | <i>Current Practice of Quantitative Risk Assessment - S. Medonos</i>  |
| 09h35 | <i>An approach to carry out a boiler plant hazard assessment - V. Rouhiainen</i>  |
| 09h55 | <i>Risk Criteria - V. Trbojevic</i>   |
| 10h15 | <i>Bayesian Modelling in Risk Assessment - M. Cepin</i>   |
| 10h30 | <b>Coffee Break</b>   |
| 10h45 | <i>Fire Loads and Response of Equipment and Structures - S. Medonos</i>   |
| 11h05 | <i>Explosion Loads and Response of Equipment and Structures - J. Czujko</i>   |
| 11h25 | <i>Risk of Natural Hazards - F. Nadim</i>   |
| 11h45 | <i>Achieving safer industrial practices by applying techniques for human reliability evaluation - H. Bolt</i>               |
| 12h05 | <i>Integrating assessment of safety culture into an overall technical-organizational safety audit - Henning B. Andersen</i> |
| 12h25 | <i>Integration of Human and Organisational Factors in Risk and Reliability Assessments - C. Leva</i>                        |
| 12h45 | <b>Lunch</b>  |
| 14h15 | <i>The Toolkit for Probabilistic Design - T. Vrouwenvelder</i>  |
| 14h35 | <i>Strategies for Reliability Based Optimisation - S. Jendo</i>   |
| 14h55 | <i>Risk optimisation and reliability based safety factors in codified design - P. Smedley &amp; R. Rackwitz</i>             |
| 15h25 | <i>Bayesian Reassessment of Structures - C. Bucher</i>  |

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| 15h45 | <b>Coffee Break</b>  |
| 16h00 | <i>General Framework for Safety and Reliability - C Guedes Soares</i>                  |
| 16h10 | <i>Framework for Integrated Risk Assessment - E. Kragh</i>                             |
| 16h30 | <i>A Systems Framework for Risk Management - A. Hessami</i>                            |
| 16h50 | <i>Framework for Assessment of Existing Structures &amp; Life Extension - M. Brehm</i> |
| 17h10 | <i>Framework for Maintenance Planning - C Guedes Soares</i>                            |
|       | <b>Close of Day</b>  |
| 20:00 | <b>Dinner</b>  |

## Tuesday, 21<sup>st</sup> February

|       |   |
|-------|---|
| 09h00 | <i>Assessment of primary school or power plant (Case Study) - M. Brehm</i>                          |
| 09h15 | <i>Assessment of Oil Platforms (Case Study) - H. Bolt</i>   |
| 09h30 | <i>Future needs of Assessment and Life Extension of Existing Structures - C. Bucher</i>             |
| 09h45 | <i>Risk Based Inspection Planning - John D. Sorensen</i>  |
| 10h05 | <i>Risk Based Maintenance Planning and Optimisation - Enrico Zio</i>                                |
| 10h25 | <b>Coffee Break</b>   |
| 10h40 | <i>Review of risk and reliability criteria as implemented in Standards and Codes - B. Leira</i>     |
| 11h00 | <i>Risk and reliability Issues in Standardisation and Codes - P. Smedley &amp; T. Vrouwenvelder</i> |
| 11h45 | <i>A modular system related to training and education within risk and reliability - B. Leira</i>    |
| 12h25 | <i>Computer Based Reliability and Risk Assessment Training - D. Caban</i>                           |
| 12h45 | <b>Lunch</b>  |
| 14h20 | <i>Structural Reliability Analysis of Offshore Structure. Benchmark Study - A. Bjorset</i>          |
| 14h40 | <i>Risk-based Approaches to Maritime Safety - A. Teixeira</i>                                       |
| 15h00 | <i>Benchmark Parking Garage - T. Vrouwenvelder</i>  |
| 15h20 | <i>Benchmark Fatigue of Steel structures - T. Vrouwenvelder</i>                                     |
| 15h40 | <i>Application of Safety and Reliability Approaches to Industry - B. Commandeur</i>                 |
| 16h00 | <i>Future Research Needs - L. Pardi</i>   |
| 16h20 | <i>Closing Session - C. Guedes Soares</i>   |
|       | <b>Close of Final Project Meeting</b>   |