

13.30- 18.00, 24th May 2017, LONDON, UK

This Workshop addresses challenges raised by London Infrastructure Plan 2050, i.e., how to maintain buildings, energy and transport infrastructure that constitute the basic pillars for providing social and economic benefits to a growing London. It features talks by a panel of seven renowned experts, discussions and a poster exhibition showcasing fourteen related projects.

Motivation: The natural consequences of an increasing demand in operational and environmental loads are rapid ageing and deterioration of infrastructure. This workshop reports on current needs of our infrastructure to remain effective and structurally safe, and how monitoring systems and reliability models can contribute to:

- a more efficient infrastructure design, assessment, monitoring and management,
- maintain current infrastructure stock in operation while minimizing risks,
- reduce infrastructure costs and demand for non-renewable and carbon intensive resources while maintaining or improving safety levels.

Venue: Committee Room at Lloyd's Register Headquarters in 71 Fenchurch St, London EC3M 4BS

Target audience: Policy makers, owners, operators, managers, research scientists, engineers and practitioners interested in **life cycle maintenance, risk and probabilistic analysis of engineering structures** and **structural health monitoring**.

Registration: The event is free, but registration is essential due to limited seats available. For more information and registration, please visit <http://trussitn.eu/workshop-1/> or email trussitn@ucd.ie

Agenda:

- 1.30 – 2.00 Registration, coffee/refreshments and poster exhibition
- 2.00 – 2.05 Welcome and Introduction by Mark Stokes (*Lloyd's Register*)
- 2.05 – 2.25 **"Bridge Asset Management at Network Rail"** by Robert Dean (*Network Rail*)
- 2.25 – 2.45 **"Thoughts about the Risks in Adopting Risk-Based Strategies"** by John Dora (*John Dora Consulting Ltd*)
- 2.45 – 3.05 **"Resilient Infrastructure: the Role of Structural Health Monitoring"** by Prof James Brownjohn (*Full Scale Dynamics Ltd and University of Exeter*)
- 3.05 – 3.25 **"Probabilistic Assessment of Bridges – Case Study Presentation"** by Assoc Prof Alan O'Connor (*Trinity College Dublin and Roughan & O'Donovan Innovative Solutions*)
- 3.25 - 4.00 Q&A
- 4.00 – 4.30 Break for coffee/refreshments and poster exhibition
- 4.30 – 4.50 **"Decision Theoretical Framework to Offshore Structural Integrity Management"** by Prof Michael Havbro Faber (*Aalborg University*)
- 4.50 – 5.10 **"Methods and Tools for Reliability Assessment"** by Dr Thierry Yalamas (*Phimeca Engineering*)
- 5.10 – 5.30 **"Data Centric Engineering"** by Prof Mark Girolami (*Imperial College London*)
- 5.30 – 6.00 Discussion and Closure

Organised by Lloyd's Register jointly with TRUSS ITN consortium



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