

# Railway Operations and Systems Engineering Workshop

## Putting whole railway conception into practice on railway projects

4th February 2015, Charing Cross Hotel, London – All day

Successful railways depend on integration of the operational and the technical aspects so that they work effectively together. The Institution of Railway Operators (IRO) and the UK chapter of the International Council on Systems Engineering (INCOSE) are jointly organising a workshop to explore how this integration may be improved.

### This workshop is for you if:

- You work on specifying operational requirements and outputs from railway projects, or wish that those projects were better at delivering the desired outputs.
- You are a Professional Rail Operator, who sees the final results of putting the operational and the technical aspects of a change together and, sometimes, has to work around the deficiencies.
- You are a Professional Systems Engineer who sees the whole railway as a system and are concerned with understanding what outcomes are wanted from projects and then ensuring that these outcomes are delivered.
- You are interested in learning more about how the railway should be considered as a whole system when undertaking any change (enhancements, a renewal or a new venture).
- You want to develop new ideas on whole-railway systems thinking.

### Cost

Members of INCOSE  
or the IRO – £96 inc. VAT  
Non-members – £120 inc. VAT

### Why should you be there?

- You will meet high quality speakers and discuss relevant issues.
- You will understand how to influence railway projects so that they deliver the operational outputs you seek.
- You will work with Operators and Systems Engineers to explore synergies between railway operations and systems engineering professions
- You will have the chance to share best practice drawn from across the industry.

### Speakers Include

#### Jeremy Long

Chief Executive Officer, European Business of MTR Corporation

#### Morten Søndergaard

Programme Director, Danish National Resignalling Programme (Banedanmark)

#### Malcolm Dobell

Former Head of Train Systems Engineering, London Underground

### What will you take away?

- Beneficial knowledge to apply in your company and to support your learning and development.
- Valuable insight from senior figures in the industry.
- Good practice in applying System Engineering and professional Railway Operations practice to the whole railway concept of railway projects.
- Ideas to assist future projects.
- Contacts with people interested in this important area.
- A better understanding of systems engineering for railway operations professionals.
- A better understanding of railway operations for systems engineering professionals.

**To book call: 03333 440523**

#### or email:

[learning@railwayoperators.co.uk](mailto:learning@railwayoperators.co.uk)

**or visit:** [www.railwayoperators.co.uk/learning-development/short-courses/](http://www.railwayoperators.co.uk/learning-development/short-courses/)

### The IRO and INCOSE

The IRO exists to advance and promote the safe, reliable and efficient operation of the railways, by improving the technical and general skills, knowledge and competence of those engaged in the operation of the railways.

INCOSE develops and disseminates the interdisciplinary principles and practices that enable the realisation of successful systems and projects. The UK chapter has a particularly active Railway Interest Group which seeks to

promote, improve and share the practice of Systems Engineering within the rail industry, to foster connections with other professional bodies and promote sharing of knowledge and experience.



The Institution of  
Railway Operators



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