

# Transport: The New Frontier in Systems Engineering

The **2011 INCOSE International Symposium** will be held from **June 19 – 23** in **Denver, Colorado** at the Hyatt Regency Denver. The INCOSE Transportation Working Group (Transport WG) has a program of events planned, including industry roundtable session, panel and paper presentations, a technical tour and networking events. This document provides further details on the Transport WG program and will be updated on a periodic basis.

## Anticipated Key Attendees:

This year, we are anticipating the following attendees for our program:



**Nout Verhoeven**  
*ProRail, Netherlands*



**Joyce Hong Pek Foong**  
Systems Assurance & Integration  
*Land Transport Authority, Singapore*



**Anne O'Neil**  
Chief Systems Engineer  
*New York City Transit, USA*



**Duncan Kemp**  
Rail Value for Money Study  
*Department for Transport, UK*



**Kuldeep Gharatya**  
Head of Systems Engineering /  
Integration  
*London Underground, UK*



**Joyce van den Hoek Ostende**  
*ProRail, Netherlands*

## Anticipated Participating Organizations:

This year, we are anticipating the following organizations to participate:

**ProRail**



Land Transport Authority

MTA New York City Transit



Rijkswaterstaat

**RTD**

Department for  
**Transport**



**CDOT**  
CHICAGO DEPARTMENT OF TRANSPORTATION

**Network Rail**

## Transport WG program highlights:

This year, our program will include:



### Transport WG technical tour

This year the Transport WG is investigating a tour to a local transportation agency operations center/facility where systems challenges and application of SE will be discussed with the agency.



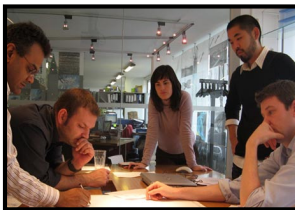
### Transport WG Industry Roundtable

The Transportation Industry Roundtable gathers leading industry professionals and SE practitioners to exchange views and current practices related to key systems challenges faced by the industry.



### Transport WG evening dinner

The Transport WG is holding a fun evening dinner event at a local restaurant in downtown Denver. Meet and mingle with fellow industry attendees. Details will follow



### Transport WG Working Session

An interactive working session to prioritize and progress current WG initiatives. Help shape the 2011-2012 direction of Transport WG efforts.



### INCOSE IS11 Tutorials

INCOSE-sponsored tutorials covering SE fundamentals available throughout the weekend, with SE practitioner-level tutorials held Mon-Thurs. Refer to [http://www.incose.org/symp2011/index.php?option=com\\_content&view=category&layout=blog&id=70&Itemid=2](http://www.incose.org/symp2011/index.php?option=com_content&view=category&layout=blog&id=70&Itemid=2) for more information on tutorials.

## Detailed Transport WG program highlights include:

This table provides a closer look at the TransportWG program:

When	What	Description
<b>Sun June 19</b>		
All day (Sat and Sun)	Systems Engineering Tutorials	Half/Full day tutorials covering SE fundamentals available throughout weekend
5-7pm	Transport WG welcome reception	Join Transport WG members for evening drinks at the hotel bar
<b>Mon June 20</b>		
1.30-5pm	Transport WG technical tour	Site visit to local transportation facility to examine their systems challenges
<b>Tues June 21</b>		
10am-12pm	Transportation Industry Roundtable	Facilitated discussion of relevant systems issues facing the transportation industry
1.30-3pm	Paper presentations – exploring SE competencies	
	<i>Would the real transportation Systems Engineer please stand up?</i>	Duncan Kemp, Dept for Transport, UK
	<i>Competencies required for successful acquisition of large, highly complex systems of systems</i>	Ken Kepchar, Chief SE, Fed. Aviation Adm, USA and James Armstrong, Stevens Institute, USA
3.30-5pm	Paper presentations – transportation best practices	
	<i>Tailoring the SE lifecycles: Goal oriented engineering phases</i>	Paul Brouwer, ProRail, Netherlands
	<i>A systems assurance perspective towards generic systems engineering</i>	Joyce Hong Pek Foong, Singapore Land Transport Authority, Singapore
7pm onwards	Transport WG evening dinner	Join us for an evening of networking with colleagues in downtown Denver
<b>Wed June 22</b>		
10am-12pm	Panel – <i>Soft-skills: what you haven't been told about developing successful systems</i>	Moderator: Adrian Terry, The Advanced Problem-Solving Partnership Ltd., UK
1.30-3.15pm	Panel – <i>I know what I want! Supply chain views on delivering requirements</i>	Moderator: Jon Elphick, Atkins, UK
3.30-5:30pm	Transport WG Working Session	Interactive session to prioritize and progress current WG initiatives
7pm onwards	INCOSE Banquet	Join your fellow symposium attendees at the INCOSE banquet