The Transportation Working Group invites You to the

Systems Engineering Tutorials throughout weekend; topics include:





Edinburgh, UK July 18 - 21, 2016

Saturday, July 16 and Sunday, July 17

All Day

	Architecting SoS; Building SE Business Case; Integrating Agile Development; Systems Resilience Fundamentals; SE Trade-Off Analyses		
	Corporate Advisory Board Meetings (CAB representatives only)		
Sunday 1600-1830	Join TWG members for evening drinks and networking Thomsons Bar - 182-184 Haymarket Terrace, Edinburgh EH3 8EB		
Monday, Ju	ıly 18		
1330-1445	-		
1530-1655	Transportation Roundtable Part 1: Unravelling complexity: how transportation is tackling systems issues in multi-project, multi-contract deliveries (Meg Downing – Highways England, Derek Price – Network Rail Infrastructure Projects, Nick Facchina – Sydney Trains, Andrew Hunter – Thales)		
Tuesday, Ju	ıly 19		
0800-0930	Keynote: Energy as a System Prof John Loughhead, Chief Scientific Advisor, Department of Energy and Climate Change, UK		
1000-1210	Transportation Panel : Verification and Validation Applications and Limitations in Civil Infrastructure Projects - The Case of US and European High Speed Rail Projects (Alain Kouassi, Oliver Hoehne, Nita Rabadia - HS2, Marco Ferrogalini - Bombardier and Matthew Hause)		
1330-1410	Case Study: A Model Based SystemsPanel: DevelopingEngineering (MBSE) FrameworkJunior SEs - a globafor Characterising Transportationcomparison ofSystems Over the Full Life Cycledifferent approaches(William Scott, Gary Arabian - TfNSW,in different sectorsRichard Fullalove - TfNSW and Peter(Duncan Kemp; CliveCampbell)Roberts, Charles		
1415-1455	Developing and implementing systems engineering and project management processes at CSIT - a small Canadian company in public transportation (Claude Laporte, Nicolas Tremblay, Jamil Menaceur and Denis Poliquin)		
1530-1610	UK Railway System Performance – Gaining Insight Through Systematic Analysis and Modelling (Bradley Hyland, Amir Toossi, Nigel Best, Amy Bradford: Network Rail)		
1615-1655	Infrastructure/Train Borne Measurements in support of Railway System Performance Modelling (Lloyd Barson, Amir Toossi, Wilson Fung: Network Rail)		
Evening	Transportation Working Group Dinner - Join us for networking with colleagues over dinner		

Program subject to change - please check the symposium website (www.incose.org/symp2016) for any updates.

at A Room in the West End. RSVP required to Sue Fursey, Sue.Fursey@hs2.org.uk



Wednesday, July 20

0800-0930	Keynote: Smart Cities Julie Alexander, Director for Urban Develo	pment, Siemens	
1045-1125	The future of systems integration within civil infrastructure: A review and directions for research (Jennifer Whyte)		
1330-1455	Panel: Systems integration in civil infrastructure (Jennifer Whyte)	Panel: Making SE happen in your organization: the Learning Journey (Tim Ferris; Richard Beasley, Alice Squires, Hillary Sillitto, Andy Bourne (TfL LUL), Anne O'Neil)	
1530-1730	Transportation Roundtable Part 2: Introducing and utilizing Systems Engineering in transportation agencies and major programs (Paul Thomas - London Underground, Melissa Jovic – Transport for New South Wales, David Traub-Warner – IBI Group / Tel Aviv Red Line Underground Stations Design Project)		
Evening	INCOSE Conference Banquet		

Thursday, July 21

1000-1210 TWG Working Session Join your TWG colleagues for a working session to contribute to IS2017 preparation and advance working group objectives.



Friday, July 22

INCOSE Technical tour - Forth Replacement Crossing.

The Forth Replacement Crossing is Scotland's biggest transport infrastructure project in a generation and is on track to be completed in 2016. This major project is delivering a new modern road bridge, upgrading the road infrastructure on both sides of the Firth of Forth, and represents a true systems response to the problems posed by the deterioration of the old road bridge and greater demands for travel capacity.

Please check the symposium website (www.incose.org/symp2016) for additional registration details: space limited.

Anticipated Participating Organizations highways england

MetworkRail

MetworkRail

MetworkRail

MetworkRail

MetworkRail

MetworkCityTransit

M

For more information contact Transportation Working Group Co-chairs: Dale Brown, *Dale.Brown@atkinsglobal.com* - Nita Rabadia, *nitarabadia@hotmail.com* Simon Smith, *simon.smith@IBIGroup.com* or Transportation Industry Ambassadors

Anne O'Neil, anneconeil@gmail.com - Lilanthi Balasingham, BalasinghamL@pbworld.com