

The Transportation Working Group invites **You** to the



27th annual **INCOSE**
international symposium

Adelaide, Australia
July 15 - 20, 2017



Transportation Program Highlights

Saturday, July 15

All Day

Systems Engineering Tutorials and Panels:

Capability SE Design, SE for Mostly Software SoS, MBSE sessions throughout Saturday

Corporate Advisory Board Meetings (CAB representatives only)

Sunday, July 16

All Day

Systems Engineering Tutorials and Panels:

ISO 42020 Architecture Processes, Best Practices of Systems of Systems Engineering, Generalist SE Tutorial: How SE Works, Systems Security Engineering: Overview and Concepts

Evening

Welcome Reception for Automotive delegates. *Join automotive and ground transportation colleagues for welcome reception during happy hour at a local establishment.*

RSVP for details: Allison Ruggiero, allison.ruggiero@nyct.com

Monday, July 17

15:30-16:10

Using an Agent-Based Simulation to Evaluate the Performance of Control Algorithms for an Intelligent Traffic System

John Panek

16:15-16:55

Developing an Operational Concept Framework to support government policy and regulation on Connected Autonomous Vehicles.

Richard Fullalove, *Transport for New South Wales*

15:30-1730

Implementing Model-Based Conceptual Design in Transport – Practices, challenges and opportunities

or

Sin Hin Oh, *Singapore LTA*;
Eric Burgers, *Dutch Transport*

Tuesday, July 18

08:00-09:30

Tuesday Keynote

Dr Tomohiko Taniguchi (*Special adviser to the cabinet of Prime Minister Shinzo Abe*)

13:30-14:55

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15:30-17:30

Joint Automotive & Transportation Industry Roundtable: Connected and Automated Vehicles – Are we Kangaroos in the headlights?

Opening remarks from Hon. Stephen Mullighan, SA Minister for Transport and Infrastructure; Craig Moran, Roads and Maritime Services, Govt. of New South Wales; Marcus Burke, Australian National Transport Commission; Niels De Boer, CETRAN, Centre of Excellence for Testing & Research of Autonomous Vehicles at Nanyang Technological University; Carla Bailo, Mobility Research, Ohio State University; Prof. Göran Roos, Economic Development Board of South Australia; Carl Liersch, Robert Bosch Australia Pty Ltd; Robert Nilsson, Volvo Car Corporation

Evening

Joint Automotive and Transportation Dinner - Enjoy informal networking with industry colleagues at a restaurant near the Convention Center.

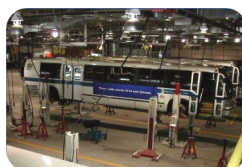
Must RSVP to attend: Allison Ruggiero, allison.ruggiero@nyct.com

Wednesday, July 19

08:00-09:30

Wednesday plenary - Systems Engineering and Autonomy: Opportunities and Challenges

Paul Nielsen (*Director & CEO - Software Engineering Institute, Carnegie Mellon University*)





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Wednesday, July 19

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| <p>10:00-10:40 Your Wish, My Command – Speeding up Projects in the Transportation Industry Using Ontologies
Hugo Guillermo Chalé Gongora, Juan Llorens and Elena Gallego</p> <p>10:45-11:25 Applying Systems Engineering Concepts to Rail and Transit Design-Build Infrastructure Projects
Timothy Stokes - <i>Based on Denver RTD projects.</i></p> <p>11:30-12:10 Realizing the Value of Systems Engineering
Richard Beasley</p> <p>13:30-14:10 The Organisation’s Transportation Architecture Framework
Gary Arabian and Edward Chan, <i>Transport for NSW</i></p> <p>14:15-14:55 System Engineering Analysis of Construction Equipment Operation in the Latin America
Kurt Azevedo and Daniel Olsen</p> <p>15:30-17:30 Transportation Industry Roundtable: Deploying SE-based Asset Management - organizational capability development case studies
Andy Nicol, <i>Moderator</i>; Michael Salvato, <i>NY MTA</i>; William Gleckler, <i>MTA NYCT</i>; Grant Burton, <i>Sydney Trains</i>; Tom Sargant, <i>PTV</i></p> <p><i>Evening</i> INCOSE Symposium Banquet</p> | <p>or</p> <p>or</p> <p>or</p> <p>or</p> <p>or</p> | <p>Improving Integration: Thinking Beyond the Physical Architecture
<i>James Armstrong</i></p> <p>Foundations for Improved Integration - Using Systems Engineering in Programme and Project Management
Andrew Gray, Helen Nasser, Ken Richardson and Kate Rooke</p> <p>13:30-14:55 Systems Engineering and Asset Management – two sides of the same coin?
Duncan Kemp, <i>UK Ministry Of Defence</i>; Ian Gibson, <i>Jacobs</i>; Paul Gibbons, <i>CH2M</i></p> |
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Thursday, July 20

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| <p>08:00-09:25 Role of Systems Engineers in Engineering Resilience
Greg Parnell, Scott Jackson, Tim Ferris and Ed Pohl</p> | <p>or</p> | <p>Deploying Digital Technology to Legacy Environments
William Palazzi; Moderator; Warwick Talbot, <i>Sydney Trains</i>; Bradley Moorhouse, <i>ARTC</i>; Len Neist, <i>PTV</i>; Simon Foster, <i>ONRSR</i></p> |
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Anticipated Participating Organizations



For more information contact Transportation Working Group Co-chairs:
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