

25th anniversary annual INCOSE international symposium

Seattle, WA, USA
July 13 - 16, 2015



The Infrastructure
Working Group
invites you to the

Infrastructure Program Highlights

Saturday, July 11 & Sunday, July 12

All Day **Systems Engineering Tutorials**
INCOSE-sponsored tutorials covering SE fundamentals available throughout weekend

Monday, July 13

Morning **Panel Session: Have We Systems Engineered Our Infrastructure Well Enough to Withstand a Cyberterrorism Attack? A Debate on the Issues**

Morning **Paper Session on Requirements**

*Implementing Structured Requirements to Improve Requirements Quality
Requirements Engineering for Control and Computing Systems at large research facilities:
Process implementation and a case study*

On the Dynamics of Design of Future-proof Systems

Afternoon **Paper Session: Rail and Road Infrastructure and Transportation**

*A Layered Approach to Railway Infrastructure Development
An application of System Architecture in the Rail and Road Infrastructure*

Afternoon **Transportation Roundtable**

Systematize that! Taking a systems approach to Asset Management.

Evening **Infrastructure Working Group Dinner. Sign up with Co-Chairs.**



Tuesday, July 14

Morning **Paper Session: Model-Based Engineering Approaches in Transportation and Infrastructure**

*The Use of MBSE in Infrastructure Projects
Model-Based System Patterns for Automated Ground Vehicle Platforms
Model-based Engineering of Emergence in a Collaborative SoS: Exploiting SysML & Formalism*

Afternoon **Paper Sessions**

*Creating an A3 Architecture Overview; a Case Study in SubSea Systems
Architecture Definition – A New Process in the ISO International Systems Engineering Standard
Model Based Systems Engineering- Focus on the Initial Stages;
A Systems Engineering Approach to Architecture Development*



Wednesday, July 15

Plenary **Keynote Speech: Modelling South Africa's water and river systems**

Dr. Ronnie McKenzie, Managing Director, WRP

Morning **Paper Session**

*Implementing Model Semantics and a (MB)SE Ontology in Civil Engineering & Construction Sector
A Novel Methodology for the Application of Middle-Out, Model-Based Systems Engineering
Techniques for City Waste Management Systems Development*

Flexibility for Multifunctional Flood Defences: Some Considerations and Challenges

Afternoon **Panel Session**

MBSE for Infrastructure Projects

Evening **INCOSE Banquet**

Thursday, July 16

Morning **Tutorial: Implementing Model Semantics and a (MB)SE Ontology in the Civil Engineering & Construction Sector through ISO/IEC 81346 ("A door is a door")**

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

For More Information Contact Infrastructure Working Group Co-chairs:

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