

Monday 2 May 2011 – Tutorial Program

0800-1730 Registration - Conference Foyer

<p>0900-1230</p>	<p>Tutorial A <i>David Long</i></p> <p><i>A Roadmap for Model-Based Systems Engineering</i></p> <p><i>Room: Lake Hakone</i></p>	<p>Tutorial C <i>Matthew Hause</i></p> <p><i>An Introduction to the Systems Modelling Language (SysML)</i></p> <p><i>Room: Lake Geneva</i></p>	<p>Tutorial G <i>Mahmoud Efatmaneshnik</i></p> <p><i>Coping with Complex Systems Engineering at Levels of Products, Processes and Organizations</i></p> <p><i>Room: Lake Nyanza</i></p>	<p>Tutorial I <i>Steve Hamilton & Peter Nikoloff</i></p> <p><i>Introduction to Defence Test & Evaluation</i></p> <p><i>Room: Lake Huron</i></p>
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1230-1330

<p>1330-1700</p>	<p>Tutorial B <i>Paul Logan</i></p> <p><i>Model Based Capability Definition (using CORE®)</i></p> <p><i>Room: Lake Hakone</i></p>	<p>Tutorial D <i>Matthew Hause</i></p> <p><i>A Solutions Based Approach to MBSE Architectures</i></p> <p><i>Room: Lake Geneva</i></p>	<p>Tutorial F <i>Gene Hudgins</i></p> <p><i>The Test and Training Enabling Architecture (TENA) Enabling Interoperability Among Ranges, Facilities, and Simulations</i></p> <p><i>Room: Lake Nyanza</i></p>	<p>Tutorial H <i>Alan McLucas</i></p> <p><i>Systems Thinking Tools for Systems Engineering Practice</i></p> <p><i>Room: Lake Huron</i></p>
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1730-1830

Welcome Cocktail Reception & Exhibition Opening
Rydges Lakeside Canberra, Lake Superior Room
Hosted by RPDE
Presentation from Air Vice-Marshal Brian (Jack) Plenty, Head Capability Systems, Capability Development Group, Defence

Tuesday 3 May 2011

0730-1730	Registration - Conference Foyer			
0830-1000	<p>Conference Welcome <i>Paul Logan, SESA National President & Mike Ryan, Conference Chair, 2011</i> Room: Lake Michigan</p> <p>Message from Platinum Sponsor – UNSW Canberra Campus, Professor Michael Frater, Rector</p> <p>Opening Keynote <i>Samantha Brown, BAE Systems, President of INCOSE</i> 21st Century Systems Engineering: Challenges and Directions Room: Lake Michigan</p> <p>Promotion of SESA Website <i>Paul Miller</i> Room: Lake Michigan</p>			
1000-1030	Morning Tea & Exhibition Viewing – Lake Superior Room			
1030-1230	<p>Parallel Session A Room: Lake Huron</p>	<p>Parallel Session B Room: Lake Nyanza/Geneva</p>	<p>Parallel Session C Room: Lake Michigan</p>	<p>Parallel Session D Room: Lake Hakone</p>
Streams	Life Cycle Modelling	Requirements	Test and Evaluation	Capability Definition
	<p><i>How to Handle: Software and Computing Systems Obsolescence Issues</i> <i>F Shuni</i></p>	<p><i>Simplifying requirements management - Lessons from a Rail project</i> <i>L Balasingham</i></p>	<p><i>T&E Risks in COTS/MOTS Acquisitions</i> <i>K Joiner</i></p>	<p><i>Understanding the interfaces between stakeholder domains in model-based systems engineering</i> <i>W Power</i></p>
	<p><i>Rationalisation of Processes and Procedural Assets for an Organisation based on Recognised Systems Engineering Standards - Practical Implementation</i> <i>C Aluwihare</i></p>	<p><i>Requirements and Solution Architecture Management for UK Type 26</i> <i>G Anderson</i></p>	<p><i>Update on Implementation of C-Band Aeronautical Telemetry at Edwards AFB</i> <i>R Selbrede</i></p>	<p><i>A Case Study in the Utility of Functional Architecture—The Tactical Communications System</i> <i>M Ryan</i></p>
	<p><i>Is Systems Engineering necessary for the achievement of technical integrity in complex engineered systems?</i> <i>M Edwards</i></p>	<p><i>Lessons learnt from the certification of the ADF Heron Unmanned Aerial System</i> <i>R Osorio</i></p>	<p><i>Access to telemetry spectrum in Australia, an update</i> <i>M Elsegood</i></p>	<p><i>Comparing MBSE methodologies to support Defence capability definition</i> <i>W Power</i></p>
	<p><i>Integrated Technology-and Skill based Competence-based Work Planning in Socio-Technical-Systems</i> <i>S Schepers</i></p>	<p><i>Voice of User: Usability in Agile Software Development</i> <i>S Adikari</i></p>	<p><i>Super Hornet Test and Evaluation</i> <i>J Kenny</i></p>	<p><i>Forward Operating Base Eye System – An Interesting Experience</i> <i>N Basheer</i></p>

1230-1330	Lunch & Exhibition Viewing – Lake Superior Room			
1330-1500	Parallel Session A Room: Lake Huron	Parallel Session B Room: Lake Nyanza/Geneva	Parallel Session C Room: Lake Michigan	Parallel Session D Room: Lake Hakone
Streams	Systems Integration	Systems Thinking and Methodologies	Test and Evaluation	Modelling and Simulation
	Models as a Foundation for Systems Engineering – Should We Expect a Breakthrough? <i>D Long</i>	The Evolution of Systems Engineering (as applied to Enterprises consisting of People and Technology) <i>J Couldrick</i>	Experimentation of Complex, Adaptive Aerospace Mission Capabilities – An International Code of Best Practice for T&E & Experimentation <i>M Tutty</i>	The use of Modelling and Simulation for Optimising ISR Mission Planning & Analysis <i>A Guidi</i>
	Evaluating the effectiveness of a service oriented approach to tactical systems integration for the Australian Army <i>G Judd</i>	Elements of a Systems Engineering Ontology <i>E Aslaksen</i>	Optimal Planning in End-to-End Testing of System-of-Systems Interoperability <i>T Huynh</i>	The Great Escape Made Safe - Modeling Safety Critical Systems <i>M Hause</i>
	Prime Systems Integration in the Telecommunications Domain <i>P Miller</i>	Design for Change (DfC) in Capability Systems <i>B Kirby</i>	Riding the wave of complexity - The AWD T&E Program <i>J Masterson</i>	Survey of Model-Based Systems Engineering in Australian Defence <i>I Solomon</i>

1500-1530	Afternoon Tea & Exhibition Viewing – Lake Superior Room		
1530-1700	Parallel Session A <i>Room: Lake Huron</i>	Parallel Session B <i>Room: Lake Nyanza/Geneva</i>	Parallel Session C <i>Room: Lake Michigan</i>
Streams	<i>Systems Integration</i>	<i>Systems Thinking and Methodologies</i>	<i>Test and Evaluation</i>
	<i>Systems Engineering of a Regional Economy</i> <i>T Huynh</i>	<i>Holistic requirements analysis to inform force level systems of systems design</i> <i>S Ng</i>	<i>Test and Evaluation of a Strategic Common Picture</i> <i>M Webb</i>
	<i>The Forgotten System Integration Practices</i> <i>L Burrows</i>	<i>Enterprise Architecture Practice and Systems Engineering – Grappling with the Void</i> <i>M Hue</i>	<i>The Wireless Revolution and the integrated Network Enhanced Telemetry Program</i> <i>R Pozmantier</i>
	<i>Towards a Systemic Systems Engineering Design Process</i> <i>S Cook</i>	<i>Analysis and specification of requirement simultaneity</i> <i>M Addis</i>	<i>Performance Comparison of Aeronautical Telemetry in S-Band and C-Band</i> <i>R Selbrede</i>
1700-1800	Systems Engineering Society of Australia Annual General Meeting <i>Room: Lake Michigan</i>		
1900-2300	Conference Dinner Rydges Lakeside Canberra, Eureka Room <i>Guest Speaker – Jackie Loeb</i>		

Wednesday 4 May 2011

0730-1600	Registration - Conference Foyer			
0730-0800	ITEA Annual General Meeting <i>Room: Lake Huron</i>			
0830-1000	Plenary Session <i>Model-based Systems Engineering (MBSE) Panel and Open Forum</i> <i>Room: Lake Michigan</i>			
1000-1030	Morning Tea & Exhibition Viewing – Lake Superior Room			
1030-1230	Parallel Session A <i>Room: Lake Huron</i>	Parallel Session B <i>Room: Lake Nyanza/Geneva</i>	Parallel Session C <i>Room: Lake Michigan</i>	Parallel Session D <i>Room: Lake Hakone</i>
Streams	<i>Life Cycle Modelling</i>	<i>Requirements</i>	<i>Managing Complex Projects</i>	<i>Tools and Applications</i>
	<i>INCOSE Systems Engineering Handbook – Visual Enhancement to Support Understanding</i> <i>B Jones</i>	<i>Specifying Processing Resource Utilization and Reserve Capacity With Diagrammatic Tools</i> <i>T O'Connor</i>	<i>Guiding the development of Ultra-Large-Scale systems</i> <i>S Flint</i>	<i>The Test and Training Enabling Architecture (TENA) Enabling Interoperability Among Ranges, Facilities, and Simulations</i> <i>G Hudgins</i>
	<i>ISO/IEC 15288(E) – Visual Enhancement for Effective Communication</i> <i>B Jones</i>	<i>Model Based User Needs Analysis</i> <i>M Waite</i>	<i>Systems Engineering in the Next Decade</i> <i>C Tudge</i>	<i>Analysis of Goal Structuring Notation (Draft) Standard</i> <i>S Simmonds</i>
	<i>Integration of Quality Management Methods into the Factory Planning Process</i> <i>B Hirsch</i>	<i>A Survey of Defence Industry Systems Engineering and Systems Integration Capability: Part 1: Research Design and Quantitative Results</i> <i>S Cook</i>	<i>Extending decision theory using two mature concepts from ethics</i> <i>M Kew</i>	<i>Use of the Goal Structuring Notation in Support of the Judgment of Significance</i> <i>S Simmonds</i>
	<i>A Systems Engineering Approach to Obsolescence Management of Military Systems</i> <i>J Nissen</i>	<i>A Survey of Defence Industry Systems Engineering and Systems Integration Capability: Part 2: Qualitative Results and Survey Findings</i> <i>S Cook</i>	<i>The Management and Coordination of Geographically Dispersed Project Teams in High-Tempo Projects</i> <i>A Mitchell</i>	<i>Prototype of Systems Engineering Tools Selection Framework for Australian Small and Medium Enterprises in Defence Industry</i> <i>X L Tran</i>

1230-1330	Lunch & Exhibition Viewing – Lake Superior Room			
1330-1500	Parallel Session A <i>Room: Lake Huron</i>	Parallel Session B <i>Room: Lake Nyanza/Geneva</i>	Parallel Session C <i>Room: Lake Michigan</i>	Parallel Session D <i>Room: Lake Hakone</i>
Streams	Systems Integration	Systems Integration	Modelling and Simulation	Tools and Applications
	<i>Generic Supply Chain Analysis Using SysML - An Empirical Research</i> <i>A Jones</i>	<i>System Integration Assessment</i> <i>T Huynh</i>	<i>Using System Dynamics Modelling to Aid in Establishing Realistic Availability for Complex Systems</i> <i>A McLucas</i>	<i>Expanding DOORS For Complete Information Management</i> <i>R McCowan</i>
	<i>Heuristics for Defining System Acceptance Criteria</i> <i>M O'Keefe</i>	<i>Tomorrow's Test Range Requirements, Increasing Demands and Compromises</i> <i>S Whitefield</i>	<i>"Are we there yet?" - Assessing Quality in Model Based Systems Engineering</i> <i>M Hause</i>	<i>Commercial Application and Perception of Systems Engineering D</i> <i>Koina</i>
	<i>An Investigation of Data Distribution Services (DDS) Performance and specification using a SysML Profile</i> <i>Q Do</i>		<i>DoDAF-based real-time Architecture 3D-Visualisation</i> <i>M Bangura</i>	<i>T33 EOD Data Logger</i> <i>N Basheer</i>
1500 - 1530	Closing Session <i>SESA President,</i> <i>President, Southern Cross Chapter of ITEA;</i> <i>And Conference Chair for SETE 2012</i> <i>Room: Lake Michigan</i>			
1530 - 1600	Afternoon Tea & Exhibition Viewing – Lake Superior Room			