

**INCOSE 2007 SYMPOSIUM PROGRAM**

Time	Location	Session	Reference	Title	Author		Affiliation	Country
<b>SATURDAY, 23 June 2007</b>								
0800-1700	<i>Regency</i>	CAB						
0800-1700		Working Groups Meetings						
<b>OPTIONAL COURSES (Ticket Required)</b>								
0800-1700	<i>Le Chantecleer</i>		C00	INCOSE SE Handbook v2a in Preparation for the CSEP Exam (2-day course, 10 person minimum)	Clark	John	<i>Northrop Grumman</i>	USA
0900-1600	<i>SDSU</i>		SEA	SEANET Workshop (doctoral students)	Valerdi	Ricardo	<i>MIT</i>	USA
<b>SUNDAY, 24 June 2007</b>								
0800-1700		Working Groups Meetings						
0800-1800	<i>Board Room</i>	Speaker Ready Room						
0900-1700	<i>Sunrise</i>	Human Systems Integration Seminar			Deal	Steve		
<b>OPTIONAL COURSE (Ticket Required)</b>								
0800-1700	<i>Le Chantecleer</i>		C00	INCOSE SE Handbook v2a in Preparation for the CSEP Exam (2-day course, 10 person minimum)	Clark	John	<i>Northrop Grumman</i>	USA
<b>HALF-DAY TUTORIALS (Ticket Required)</b>								
0800-1200	<i>Golden West</i>		H0C	Using Risk Management to Boost an Enterprise's IQ	Powell	Mark	<i>SAIC, Stevens Institute of Technology</i>	USA
0800-1200	<i>California</i>		H0E	AP233 Systems Engineering and Design Overview	Spiby	Philip	<i>Eurostep Limited</i>	UK
<b>FULL-DAY TUTORIALS (Ticket Required)</b>								
0945-1715	<i>Town &amp; Country</i>		F0A	Response Enabling Architecture & Design Principle for Agile Systems and Enterprises	Dove	Rick	<i>Stevens Institute of Technology</i>	USA
0945-1715	<i>San Diego</i>		F0B	the Evolutionary Project Management Method: Practical Rules, Principles & templates to Practice Evolutionary Project Management	Gilb	Tom	<i>RPL</i>	NORWAY
<b>HALF-DAY TUTORIALS (Ticket Required)</b>								
1300-1700	<i>Golden West</i>		H0D	Model Based Systems Engineering for Project Success: The Complete Process	Long	James	<i>Vitech Corporation</i>	USA
1300-1700	<i>California</i>		H0F	Ap233 Systems Engineering and Design Implementation	Spiby	Philip	<i>Eurostep Limited</i>	UK
1700-1800		Chapter Presidents' Reception		<i>(Invitation Only)</i>				
1800-2130		Sponsor/CAB Dinner		<i>(Invitation Only)</i>				

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<b>MONDAY, 25 June 2007</b>								
0700-0745	<i>Tiki Pavilion</i>	<b>Speakers/Session Chairs' Breakfast</b>						
0800-0930	<i>Town &amp; Country</i>	<b>OPENING PLENARY</b>						
				Mind the Gap: Applying SE to Address the Delivery Challenges of London Underground Programmes	Gharatya	Kuldeep	<i>London Underground Ltd</i>	UK
<b>FULL-DAY TUTORIALS (Ticket Required)</b>								
0945-1715	<i>Sunset</i>		F01	An Introduction to the OMG Systems Modeling Language (OMG SysML)	Friedenthal	Sanford	<i>Lockheed Martin</i>	USA
0945-1715	<i>Sunrise</i>		F02	Architecture Frameworks & Modeling	Martin	James	<i>The Aerospace Corporation</i>	USA
	<i>Towne</i>	<b>ACADEMIC FORUM</b>						
<b>Systems Engineering Bioware</b>								
1000-1055			AF 01	Biologically Inspired Systems Concepts: A Personal History	Friedman	George	<i>USC</i>	USA
1100-1115			AF 02	NCW - Nature's Predator-Prey Abstraction	Gregg	Michael	<i>Boeing Company</i>	USA
1120-1155				Reports				
<b>Systems Engineering Research</b>								
1300-1355				Engineering complex Systems	Rouse	Bill		
1400-1415			AF 03	A Research Agenda for Systems of Systems Architecting	Valerdi	Ricardo	<i>MIT</i>	USA
<b>Systems Engineering Education</b>								
1420-1435				A Reference Curriculum for SE	Verma	Dinesh		
1440-1455			AF 04	Measuring Outcomes and Objectives for ABET Accreditation in a Systems Engineering Undergraduate Program	Brouse	Peggy	<i>George Mason University</i>	USA
1530-1545			AF 05	Undergraduate Basics for Systems Engineering (SE), using The Principles, Measures, Concepts and Processes of Planguage.	Gilb	Tom	<i>RPL</i>	NORWAY
1550-1605			AF 06	Meeting the Need for Defence Systems Engineers	Cropley	David	<i>University of South Australia</i>	Australia
<b>Ssystems Engineering Hot Topics</b>								
1610-1625				A ConOps for Systems Engineering	Ring Wymore	Jack Wayne		
1625-1700				Discussion				

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<b>MONDAY, 25 June 2007</b>								
	<i>Town &amp; Country</i>	<b>Track 1: Systems of Systems &amp; Intelligent Enterprises</b>						
		<b>Session 1 Track 1: PANEL</b>						
1000-1200			01.1.0	Do We Have Systems Resilient to Natural Disaster Events and/or to Terrorist Attacks?	Mackey	William	<i>Vitech and University of MD</i>	USA
	<i>San Diego</i>	<b>Track 2: Commercial Systems Engineering &amp; Transit</b>						
		<b>Session 1 Track 2: PANEL</b>						
1000-1200			01.2.0	Heading Down a New Track: Growing an SE Practice in a Big, Bureaucratic, Legacy Enterprise	Erickson	Collette	<i>New York City Transit</i>	USA
	<i>Golden West</i>	<b>Track 3: Process &amp; Model-Based Systems Engineering</b>						
		<b>Session 1 Track 3: MODELING</b>						
		<b>Chair:</b>	<i>M. Sampson</i>					
1000-1025			01.3.1	Modeling of Hardware Software Performance of High-Tech Systems.	Muller	Gerrit	<i>Embedded Systems Institute</i>	Netherlands
1030-1055			01.3.2	A Vision for Super-Model Driven Systems Engineering	Piggott	Stephen	<i>Canadian Space Agency</i>	Canada
1100-1125			01.3.3	Hybrid Systems Dynamics, Petri Net, and Agent-Based Modeling of the Air and Space Operations Center	White	Brian	<i>The MITRE Corporation</i>	USA
1130-1155			01.3.4	Model-Based Design and Verification of Fault-Tolerant Systems	Sorea	Maria	<i>EADS Corporate Research Centre, Germany</i>	Germany
	<i>California</i>	<b>Track 4: SE Approaches &amp; Perspectives</b>						
		<b>Session 1 Track 4: DEVELOPING SE PROFESSIONALS</b>						
		<b>Chair:</b>	<i>D. Long</i>					
1000-1025			01.4.1	An Integrated Approach to Developing Systems Professionals	Davidz	Heidi	<i>The Aerospace Corporation</i>	USA
1030-1055			01.4.2	A Model for Successful Engineering Internship: Growing Our Own Future Engineers	Malloy	Mary Ann	<i>The MITRE Corporation</i>	USA
1100-1125			01.4.3	Challenges in the Development of Systems Engineering as a Profession	Dixit	Indrajeet	<i>University of Southern California</i>	USA
1130-1155			01.4.4	Measurably Improving Your Systems Engineering Requirements	Olson	Tim	<i>Quality Improvement Consultants, Inc. (QIC)</i>	USA
	<i>Royal Palm 1&amp;2</i>	<b>Track 5: SE With Risk &amp; Uncertainty</b>						
		<b>Session 1 Track 5: INTELLIGENT DECISIONS</b>						
		<b>Chair:</b>	<i>K. Ptack</i>					
1000-1025			01.5.1	A Decision Support System to Schedule Design Activities in Aircraft Industry	Riviere	Arnaud	<i>EADS Corporate Research Centre</i>	France
1030-1055			01.5.2	Emerging Real-Time Intelligent Agents In Space Launch Verification and Anomaly Resolution	Beshore	David	<i>The Aerospace Corporation</i>	USA
1100-1125			01.5.3	Case Study: Tailoring CMMI®-Based Command Media for a Company's Individual Business Areas	Turner	Derek	<i>Harris Corporation</i>	USA
1130-1155			01.5.4	Time-Expanded Decision Networks: A Framework for Designing Evolvable Complex Systems	de Weck	Olivier	<i>MIT</i>	USA

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<b>MONDAY, 25 June 2007</b>								
	<i>Royal Palm 3&amp;4</i>	<b>Track 6: SE Processes, Standards &amp; Heuristics</b>						
		<b>Session 1 Track 6: SE PROCESSES</b>						
		<b>Chair:</b>	<i>D. Wright</i>					
1000-1025			01.6.1	Using CORE Model-Based Systems Engineering Software to Support Program Management in the U.S. Department of Energy Office of the Biomass Program	Simpkins	Philip	<i>Vitech Corporation</i>	USA
1030-1055			01.6.2	Practical Process Implementation: Using SE Methods to Develop SE Processes	Nolte	Jerome	<i>Northrop Grumman</i>	USA
1100-1125			01.6.3	Managing Dynamic New Product Development Processes	Reich	Yoram	<i>Tel Aviv University, Tel Aviv, Israel</i>	USA
1130-1155			01.6.4	Synthesizing the Organizational System	Arnold	Eileen	<i>BAE Systems Land &amp; Armaments</i>	USA
1200-1330	<i>Atlas Foyer</i>	<b>Lunch</b>						
1200-1300	<i>Town &amp; Country</i>	<b>New Member Orientation Lunch</b>						
		<b>HALF-DAY TUTORIALS (Ticket Required)</b>						
1300-1700	<i>Royal Palm 1&amp;2</i>		H01	Integrating Systems Engineering with Earned Value Management	Solomon	Paul	<i>Performance-Based Earned Value</i>	USA
1300-1700	<i>Royal Palm 3&amp;4</i>		H02	Thinking and Learning- Outside the Box	Eisner	Howard	<i>The George Washington University</i>	USA
	<i>Town &amp; Country</i>	<b>Track 1: Systems of Systems &amp; Intelligent Enterprises</b>						
		<b>Session 2 Track 1: DRIVERS FOR SE</b>						
		<b>Chair:</b>	<i>C. Haskins</i>					
1330-1355			02.1.1	Defining Lean Systems Engineering Processes and Procedures	Olson	Tim	<i>Quality Improvement Consultants, Inc.</i>	USA
1400-1425			02.1.2	Milestone Driven Systems Engineering Methods	Wells	Brian	<i>Raytheon Integrated Defense Systems</i>	USA
1430-1455			02.1.3	The US Ballistic Missile Defense System: A Case Study in Architecting Systems-of-Systems	Hollon	Heather	<i>University of Missouri-Rolla</i>	USA
	<i>San Diego</i>	<b>Track 2: Commercial Systems Engineering &amp; Transit</b>						
		<b>Session 2 Track 2: REQUIREMENTS &amp; STAKEHOLDERS</b>						
		<b>Chair:</b>	<i>A. Jain</i>					
1330-1355			02.2.1	Eight Deadly Defects in Systems Engineering and How to Fix Them	Kasser	Joseph	<i>University of South Australia</i>	Australia
1400-1425			02.2.2	Using Stakeholder Analysis to Define the Problem in Systems Engineering	Parnell	Greg	<i>Department of Systems Engineering, USMA</i>	USA
1430-1455			02.2.3	Combined Requirements Engineering (CRE): The Quest for Widening the Applicability of Requirements Engineering Practices in the Emerging Product-Service Paradigm	Agouridas	Vassilis	<i>University of Leeds</i>	UK

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<b>MONDAY, 25 June 2007</b>								
	<i>Golden West</i>	<b>Track 3: Process &amp; Model-Based Systems Engineering</b>						
		<b>Session 2 Track 3: MODELING</b>						
		<b>Chair:</b>	<i>J. Riley</i>					
1330-1355			02.3.1	Benefits and Costs of Model-Based Fault Diagnosis for Semiconductor Manufacturing Equipment	Pietersma	Jurryt	<i>Delft University of Technology</i>	Netherlands
1400-1425			02.3.2	Model-based techniques for intelligent integration and testing in industry	Braspenning	Niels	<i>Eindhoven University of Technology</i>	Netherlands
1430-1455			02.3.3	HCI Aspects of SysML and Architectural Frameworks	Hause	Matthew	<i>Artisan Software Tools</i>	UK
	<i>California</i>	<b>Track 4: SE Approaches &amp; Perspectives</b>						
		<b>Session 2 Track 4: DECISION ASSESSMENT</b>						
		<b>Chair:</b>	<i>T. Fossnes</i>					
1330-1355			02.4.1	Decision Analysis for Design Trades for A Combined Scientific-Technological Mission Orbit on Venus Micro Satellite	Herscovitz	Jacob	<i>Rafael Ltd., Israel</i>	Israel
1400-1425			02.4.2	Incorporating Software Cost and Risk Assessment into Early System Development Trade Studies	Weiss	Kathryn	<i>Jet Propulsion Laboratory</i>	USA
1430-1455			02.4.3	Does INCOSE Need PR?	Zonnenshain	Avigdor	<i>RAFAEL</i>	Israel
	<i>Town &amp; Country</i>	<b>Track 1: Systems of Systems &amp; Intelligent Enterprises</b>						
		<b>Session 3 Track 1: SYSTEMS OF SYSTEMS</b>						
		<b>Chair:</b>	<i>G. Roedler</i>					
1530-1555			03.1.1	System of Systems Engineering Model by Multistage Analytical Target Cascading	Kim	Harrison	<i>University of Illinois at Urbana-Champaign</i>	USA
1600-1625			03.1.2	Architecture-Based Drivers for System-of-Systems and Family-of-Systems Cost Estimating	Wang	Gan	<i>BAE Systems</i>	USA
1630-1655			03.1.3	Exploring Intelligent Enterprise System Limitations	Palmer	Kent	<i>SEEC Student</i>	USA
	<i>San Diego</i>	<b>Track 2: Commercial Systems Engineering &amp; Transit</b>						
		<b>Session 3 Track 2: FRAMEWORK &amp; COMMONALITY</b>						
		<b>Chair:</b>	<i>S. Settles</i>					
1530-1555			03.2.1	An Enterprise Architecture Framework for Developing Command and Control Systems	Yeoh	Lean-Weng	<i>Defence Science and Technology Agency</i>	Singapore
1600-1625			03.2.2	Enabling Economics-Driven Systems Engineering Through Reusable Software Architectures and Components	Selby	Richard	<i>Northrop Grumman</i>	USA
1630-1655			03.2.3	Divergence: The Impact of Lifecycle Changes on Commonality	Boas	Ryan	<i>MIT</i>	USA

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		<b>Session 3 Track 3: MODELING</b>						
		<i>Chair:</i>	<i>B. White</i>					
1530-1555			03.3.1	Driving System Development Process from Strategic Goals to Requirements Specification	El Ghazi	Hamid	<i>Centre de recherche en informatique (C.R)</i>	France
1600-1625			03.3.2	Modeling Hierarchy, Coping with the Dynamic Range from Design Details up to Business Metrics; Illustrated by a Semiconductor Case	Muller	Gerrit	<i>Embedded Systems Institute</i>	Netherlands
1630-1655			03.3.3	Reuse and Usage for System Engineering Model Elements	Smith	Darold	<i>UGS</i>	USA
	<i>California</i>	<b>Track 4: SE Approaches &amp; Perspectives</b>						
		<b>Session 3 Track 4: VALUE OF SE</b>						
		<i>Chair:</i>	<i>E. Aslaksen</i>					
1530-1555			03.4.1	Promoting The Real Value of Systems Engineering Using an Extended SCARIT Process Model	Saunders	Steven	<i>Raytheon Australia Pty. Ltd.</i>	Australia
1600-1625			03.4.2	The ROI of Systems Engineering: Some Quantitative Results	Valerdi	Ricardo	<i>MIT</i>	USA
1630-1655			03.4.3	The Value-Based Theory of Systems Engineering: Identifying and Explaining Dependencies	Boehm	Barry	<i>University of Southern California</i>	USA
1715-1800	<i>Town &amp; Country</i>	<b>Working Group Introductions</b>						
1800-2030	<i>Exhibit Hall</i>	<b>Ice Breaker Reception/Exhibits Open</b>						

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<b>TUESDAY, 26 June 2007</b>							
0700-0745	<i>Tiki Pavilion</i>	<b>Speakers/Session Chairs' Breakfast</b>					
0800-0930	<i>Town &amp; Country</i>	<b>TUESDAY PLENARY</b>					
				Singapore: An Example of a Large Scale System	Chuen	Lui Pao	<i>Ministry of Defence (MINDEF)</i> Singapore
0930-1800		<b>Exhibits Open</b>					
		<b>FULL-DAY TUTORIALS (Ticket Required)</b>					
0945-1715	<i>Sunset</i>		F03	From Research to Reality: Making COSYSMO a Trusted Estimation Tool in Your Organization	Valerdi	Ricardo	<i>MIT</i> USA
0945-1715	<i>Sunrise</i>		F04	How to Define Practical Systems Engineering Metrics	Olson	Tim	<i>Quality Improvement Consultants</i> USA
	<i>Town &amp; Country</i>	<b>Track 1: Systems of Systems &amp; Intelligent Enterprises</b>					
		<b>Session 4 Track 1: PANEL</b>					
1000-1200			04.1.0	Requirements Engineering for Software vs. Systems in General?	Kaindl	Hermann	<i>Vienna University of Technology, ICT</i> Austria
	<i>San Diego</i>	<b>Track 2: Commercial Systems Engineering &amp; Transit</b>					
		<b>Session 4 Track 2: PANEL</b>					
1000-1200			04.2.0	Managing Rail Requirements: Case Studies Applying SE to Rail/Transit Projects	Krueger	Michael	<i>ASE Consulting LLC</i> USA
	<i>Golden West</i>	<b>Track 3: Process &amp; Model-Based Systems Engineering</b>					
		<b>Session 4 Track 3: PANEL</b>					
1000-1200			04.3.0	Discovering a Strategy for Whole Systems Modeling	Ring	Jack	<i>Innovation Management</i> USA
	<i>California</i>	<b>Track 4: SE Approaches &amp; Perspectives</b>					
		<b>Session 4 Track 4: REVIEW APPROACHES</b>					
		<b>Chair:</b>	<i>J. Fisher</i>				
1000-1025			04.4.1	Rule-Based Design Reviews	Gilb	Tom	<i>RPL</i> NORWAY
1030-1055			04.4.2	Measurement-Driven Systems Engineering Using Six Sigma Techniques to Improve Software Defect Detection	Selby	Paige	<i>Northrop Grumman</i> USA
1100-1125			04.4.3	Applying Measurement Principles and Adapting a Defect Predictability Model to Hardware Development	Frenz	Paul	<i>General Dynamics Advanced Information Systems</i> USA
1130-1155			04.4.4	Systems Architecture: A View Based on Multiple Impacts	Gilb	Tom	<i>RPL</i> NORWAY

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<b>TUESDAY, 26 June 2007</b>								
	Royal Palm 1&2	<b>Track 5: SE With Risk &amp; Uncertainty</b>						
		Session 4 Track 5: UNCERTAINTY & KNOWLEDGE MGT.						
		Chair:	A. El-Fatraty					
1000-1025			04.5.1	Extracting Value from Uncertainty: A Methodology for Engineering Systems Design	Cardin	Michel-Alex	Massachusetts Institute of Technology	USA
1030-1055			04.5.2	Knowledge Management- A Key Element of Success	Long	Leon	The Boeing Company	USA
1100-1125			04.5.3	Defining Military Pilot Training Requirements for 2015+ through the Application of Systems Approaches	Cleveley	John	Loughborough University	UK
1130-1155			04.5.4	Dialogic design for the intelligent enterprise: Collaborative strategy, process, and action	Jones	Peter	Redesign Research	USA
	Royal Palm 3&4	<b>Track 6: SE Processes, Standards &amp; Heuristics</b>						
		Session 4 Track 6: SE STANDARDS						
		Chair:	R. Case					
1000-1025			04.6.1	Applying Creativity in Modelling and Simulation	Cropley	David	University of South Australia	Australia
1030-1055			04.6.2	YADSES: Yet Another Darn Systems Engineering Standard	Walden	David	Sysnovation, LLC	USA
1100-1125			04.6.3	Self-Assessment Scheme and an Evaluation of its Reliability based on ISO 9004:2000	Hwang	Young-Ha	Electronics and Telecommunications Research Institute	Korea
1130-1155			04.6.4	Evolution of Assessment in a Hierarchical Team Project at Final Year Undergraduate Level	Ferris	Tim	SEEC/University of South Australia	Australia
1000-1300	Towne	Exhibitor Presentations						
1200-1330		Lunch						
		<b>HALF-DAY TUTORIALS (Ticket Required)</b>						
1300-1700	Royal Palm 1&2		H03	Connecting Enterprise Modeling and Requirements Using an Object-Oriented Approach	Kaindl	Hermann	Vienna Univeristy of Technology, ICT	AUSTRIA
1300-1700	Royal Palm 3&4		H04	Managing Technical Uncertainty	Dale	Robert	MBDA	UK
	Town & Country	<b>Track 1: Systems of Systems &amp; Intelligent Enterprises</b>						
		Session 5 Track 1: INTELLIGENT ENTERPRISES						
		Chair:	S. Else					
1330-1355			05.1.1	System Evolution in the Intelligent Enterprise: An Historical Case Study of VISA's Transaction Processing Systems	Cokus	Michael	MITRE	USA
1400-1425			05.1.2	Integrating the Intelligent Enterprise	Dixon	Keith	University of Bath	USA
1400-1426			05.1.3	Seven Secret Tips To Build Intelligent Enterprise Architectures	Carl	Joseph	Riverside Research Institute / Air Force Center for Sytems E	USA

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<b>TUESDAY, 26 June 2007</b>								
	<i>San Diego</i>	<b>Track 2: Commercial Systems Engineering &amp; Transit</b>						
		<b>Session 5 Track 2: PANEL</b>						
1330-1430			05.2.1	Tailoring to Transit: Case Studies Applying SE to the Rail/Transit Domain	O'Neil	Anne	<i>New York City Transit</i>	USA
	<i>Golden West</i>	<b>Track 3: Process &amp; Model-Based Systems Engineering</b>						
		<b>Session 5 Track 3: MBSE</b>						
1330-1430				Model Based Systems Engineering Plenary	Sampson	Mark		
	<i>California</i>	<b>Track 4: SE Approaches &amp; Perspectives</b>						
		<b>Session 5 Track 4: VALIDATION &amp; VERIFICATION</b>						
		<b>Chair:</b>	<i>B. Miller</i>					
1330-1355			05.4.1	The Continued Evolution of Validation: Issues and Answers	Armstrong	James	<i>Systems and Software Consortium</i>	USA
1400-1425			05.4.2	MV <sup>2</sup> tool : Management of Validation & Verification of Engineering Requirements	Ducamp	Christophe	<i>Airbus Chief Engineering A/C Operability Program Manager</i>	USA
1430-1455			05.4.3	Usability of formal verification on EFFBD models: Applying Petri nets to Systems Engineering issues	Seidner	Charlotte	<i>Sodius</i>	France
	<i>Town &amp; Country</i>	<b>Track 1: Systems of Systems &amp; Intelligent Enterprises</b>						
		<b>Session 6 Track 1: COMPLEXITY</b>						
		<b>Chair:</b>	<i>T. S. Yeo</i>					
1530-1555			06.1.1	Principles of Complex Systems for Systems Engineering	Sheard	Sarah	<i>Third Millennium Systems LLC</i>	USA
1600-1625			06.1.2	Better Use of Design Descriptions to Embrace Complexity and Creativity in Systems Engineering.	Strengers	George	<i>Tenix Defence Pty Ltd</i>	Australia
1630-1655			06.1.3	System Resilience: Capabilities, Culture and Infrastructure	Jackson	Scott	<i>University of Southern California</i>	USA
	<i>San Diego</i>	<b>Track 2: Commercial Systems Engineering &amp; Transit</b>						
		<b>Session 6 Track 2: ORGANIZATIONAL CHALLENGES</b>						
		<b>Chair:</b>	<i>L. Larsson</i>					
1530-1555			06.2.1	From Foresight to Insight: A Strategic Alignment Model for New Product Development	Lee	Hei-Kuang	<i>Institute of Nuclear Energy Research, Taiwan, R.O.C.</i>	Taiwan
1600-1625			06.2.2	Requirements for Outsourcing	Gilb	Tom	<i>RPL</i>	Norway
1630-1655			06.2.3	Five Avoidable Problems in Process Improvement	Hoppe	Markus	<i>HOOD Group</i>	Germany
	<i>Golden West</i>	<b>Track 3: Process &amp; Model-Based Systems Engineering</b>						
		<b>Session 6 Track 3: MBSE Challenge</b>						
1530-1700			06.3.0	MBSE Challenge	INCOSE TLT T	Mark		

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<b>TUESDAY, 26 June 2007</b>								
	<i>California</i>	<b>Track 4: SE Approaches &amp; Perspectives</b>						
		<b>Session 6 Track 4: FRAMEWORKS</b>						
		<i>Chair:</i>	<i>A. Kouassi</i>					
1530-1555			06.4.1	The Hitchins-Kasser-Massie (HKM) Framework for Systems Engineering	Kasser	Joseph	<i>University of South Australia</i>	Austria
1600-1625			06.4.2	A Metrics Framework for Capability Definition, Engineering and Management	Pogotto	Jack	<i>Defence Research and Development Canada Ottawa</i>	USA
1630-1655			06.4.3	Architecture Frameworks in System Design: Motivation, Theory, and Implementation	Richards	Matthew	<i>MIT</i>	USA
1530-1730	<i>Royal Palm 5</i>	<b>Rail / Transit Roundtable</b>			O'Neil	Ann	<i>NYCT</i>	USA
	<i>Towne</i>	<b>TECHNICAL INFORMATION EXCHANGE SESSION (TIES)</b>						
1330-1340			KR 01	A Conceptual Glossary for Systems Engineering: Define the Concept, Don't Quibble about the Terms	Gilb	Tom	<i>RPL</i>	NORWAY
1345-1355			KR 02	Creative Product Development	Dick	Michael	<i>Northrop Grumman Corporation, Integrated Systems Sector</i>	USA
1400-1410			KR 03	Cultural Differences - and how they affect Systems Engineering.	Pandikow	Asmus	<i>Syntell AB</i>	Sweden
1415-1425			KR 04	Effective Industrial Modeling for High-tech Systems: The Example of Happy Flow	Muller	Gerrit	<i>Embedded Systems Institute</i>	Netherlands
1430-1440			KR 05	Everything always works the way it's supposed to right? The importance of tool integration and customization in today's development programs.	Colwell	Joshua	<i>The Boeing Company</i>	USA
1445-1455			KR 06	The Evolving Joint Perspective and Meta-systems Theory: A Case Study based on the Joint Vision Document	Palmer	Kent	<i>SEEC Student</i>	USA
1500-1555			TIES 01	CSEP Applicaton Preparation	Wheeler	Robert	<i>The Center for Systems Management</i>	USA
1600-1655			TIES 02	Unified Life Cycle Modeling	Hantos	Peter	<i>The Aerospace Corporation</i>	USA
1700-1800		<b>Exhibit Hall Social Hour</b>						
1900-2200	<i>USD</i>	<b>Latin American &amp; Caribbean Dinner (<i>Optional Event</i>)</b>						

**INCOSE 2007 SYMPOSIUM PROGRAM**

Time	Location	Session	Reference	Title	Author		Affiliation	Country
<b>WEDNESDAY, 27 June 2007</b>								
0700-0745	<i>Tiki Pavilion</i>	<b>Speakers/Session Chairs' Breakfast</b>						
0800-0930	<i>Town &amp; Country</i>	<b>PLENARY PANEL</b>						
				Are New Principles Required to Treat Enterprises as Systems?				
0930-1700		<b>Exhibits Open</b>						
		<b>FULL-DAY TUTORIALS (Ticket Required)</b>						
0945-1715	<i>Sunset</i>		F05	Complex Systems for the Systems Engineer	Sheard	Sarah	<i>The George Washington University</i>	USA
0945-1715	<i>Sunrise</i>		F06	Applying System Engineering to the Intelligent Enterprise and it Work Products	Wasson	Charles	<i>Author</i>	USA
	<i>Town &amp; Country</i>	<b>Track 1: Systems of Systems &amp; Intelligent Enterprises</b>						
		<b>Session 7 Track 1: COMMUNITIES &amp; SE</b>						
		<b>Chair:</b>	<i>R. Cloutier</i>					
1000-1025			07.1.1	No Vehicles on the Mall	Pringle	Charles	<i>Central Washington University</i>	USA
1030-1055			07.1.2	Analysis of Singapore's 1991 Strategic Economic Plan Using the Large Scale Systems Engineering Framework	Chia	Eng Seng	<i>Defence Science and Technology Agency</i>	Singapore
1100-1125			07.1.3	The story of Verdal: How One Intelligent Community Uses Systems Engineering to Enable Sustainable Development	Haskins	Cecilia	<i>NTNU</i>	Norway
1130-1155			07.1.4	Coping With System Integration Challenges in Large Complex Environments	Muller	Gerrit	<i>Embedded Systems Institute</i>	Netherlands
	<i>San Diego</i>	<b>Track 2: Commercial Systems Engineering &amp; Transit</b>						
		<b>Session 7 Track 2: PANEL</b>						
1000-1200			07.2.0	Challenges and Success in the Deployment of Systems Engineering in the Commercial World	Jain	Ashok	<i>UTC/P&amp;W</i>	USA
	<i>Golden West</i>	<b>Track 3: Process &amp; Model-Based Systems Engineering</b>						
		<b>Session 7 Track 3: PANEL</b>						
1000-1200			07.3.0	SysML Early Applications and Lessons Learned	Friedenthal	Sanford	<i>Lockheed Martin</i>	USA
	<i>California</i>	<b>Track 4: SE Approaches &amp; Perspectives</b>						
		<b>Session 7 Track 4: PERSPECTIVES ON SE</b>						
		<b>Chair:</b>	<i>J. Chism</i>					
1000-1025			07.4.1	Coupling Enterprise and Technology by a Compact and Specific Architecture Overview	Muller	Gerrit	<i>Embedded Systems Institute</i>	Netherlands
1030-1055			07.4.2	Development and Application of Abstract Relation Types for Use in Systems and Systems-of-Systems Design and Evaluation	Dagli	Cihan	<i>University of Missouri-Rolla</i>	USA
1100-1125			07.4.3	Some Early History of Systems Engineering - 1950's in IRE Publications (part 1): The Problem	Ferris	Tim	<i>SEEC/Univeristy of South Australia</i>	Australia
1130-1155			07.4.4	Some Early History of Systems Engineering - 1950's in IRE Publications (part 2): The Solution	Ferris	Tim	<i>SEEC/University of South Australia</i>	Australia

**INCOSE 2007 SYMPOSIUM PROGRAM**

Time	Location	Session	Reference	Title	Author		Affiliation	Country
<b>WEDNESDAY, 27 June 2007</b>								
	Royal Palm 1&2	<b>Track 5: SE With Risk &amp; Uncertainty</b>						
		<b>Session 7 Track 5: RISK</b>						
		<b>Chair:</b>	<b>D. Kitterman</b>					
1000-1025			07.5.1	Taking Out the Garbage: Getting Good Risks into Your Risk Tool	Parker	Vikki	Northrop Grumman Corporation	USA
1030-1055			07.5.2	Risk Analysis	Smith	Eric	University of Missouri - Rolla	USA
1100-1125			07.5.3	Cultural Models of Organizational Risk in Product Development	Collins	Shawn	Department of Anthropology, University of Connecticut	USA
1130-1155			07.5.4	Controlling Project Risk by Design	Malotau	Niels	N R Malotau - Consultancy	Netherlands
	Royal Palm 3&4	<b>Track 6: SE Processes, Standards &amp; Heuristics</b>						
		<b>Session 7 Track 6: SE PRINCIPLES &amp; HEURISTICS</b>						
		<b>Chair:</b>	<b>D. Anderson</b>					
1000-1025			07.6.1	Systems are Imaginary -- Systems are Not Real: Some Thoughts on the Nature of Systems Thinking	Martin	James	The Aerospace Corporation	USA
1030-1055			07.6.2	Damn the Torpedoes! Lessons from Underwater Warfare.	Fossnes	Terje	Norwegian Defence Procurement Department - Submarines	Norway
1100-1125			07.6.3	Case Study in Establishing Systems Engineering Principles: One Organization's Experience	Reutzel	Adria	Sandia National Laboratories	USA
1130-1155			07.6.4	Some Powerful Systems Engineering Heuristics	Gilb	Tom	RPL	Norway
1000-1300	Towne	<b>Exhibitor Presentations</b>						
1200-1330	Exhibit Hall	<b>Lunch</b>						
		<b>HALF-DAY TUTORIALS (Ticket Required)</b>						
1300-1700	Royal Palm 1&2		H05	Systems Engineering SE Tools- applying systems to defining, choosing, and developing SE tools	Sampson	Mark	UGS	USA
1300-1700	Royal Palm 3&4		H06	Architecting and Engineering Systems, Processes, and Organization Using the Design Structure Matrix (DSM)	Browning	Tyson	Texas Christian University	USA
	Towne	<b>Technical Information Exchange Session (TIES)</b>						
1330-1340			KR 07	Expanding Functional Analysis to Develop Requirements for the Design of the Human-Computer Interface	McKenna	Brian	ManTech - Cognitive Systems Engineering Center	USA
1345-1355			KR 08	From Research to Reality: Making COSYSMO a trusted estimation tool in your organization	Valerdi	Ricardo	MIT	USA
1400-1410			KR 09	Modeling Emergent Behavior for System-of-Systems	Hsu	John	The Boeing Company	USA
1415-1425			KR 10	Requirement Relationships: A Theory, some Principles, and a Practical Approach.	Gilb	Tom	RPL	NORWAY
1430-1440			KR 11	Using a Boundary Object Framework to Analyze Interorganizational Collaboration	Fong	Allan	Lean Aerospace Initiative, MIT	USA
1500-1555			TIES 03	Optimally Organizing System Engineering Activities for Project Success	Malotau	Niels	N R Malotau- Consultancy	NETHERLANDS
1600-1655			TIES 04	Systems Requirements Reuse	Mannion	Mike	Glasgow Caledonian Univeristy	UK

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Time	Location	Session	Reference	Title	Author		Affiliation	Country
<b>WEDNESDAY, 27 June 2007</b>								
	<i>Town &amp; Country</i>	<b>Track 1: Systems of Systems &amp; Intelligent Enterprises</b>						
		Session 8 Track 1: INTELLIGENT ENTERPRISES						
		Chair:	<i>J. Armstrong</i>					
1330-1355			08.1.1	Get Smart- Enabling Enterprise Systems Intelligence and Decision Making through Critical Parameter Management	Hamman	Christopher	<i>Raytheon Integrated Defense Systems/ Duke University/ Worces</i>	USA
1400-1425			08.1.2	Human Factors Integration for MODAF: Needs and Solution Approaches	Bruseberg	Anne	<i>Systems Engineering and Assessment Ltd.</i>	Switzerland
1430-1455			08.1.3	Towards an Integrated Model of Enterprise Systems	Kennedy	Grace	<i>Loughborough University, SEIC</i>	UK
	<i>San Diego</i>	<b>Track 2: Commercial Systems Engineering &amp; Transit</b>						
		Session 8 Track 2: COMMERCIAL APPLICATIONS						
		Chair:	<i>H. van der Linden</i>					
1330-1355			08.2.1	The Compilation of an Integrated Qualification and Commissioning Programme for a Nuclear Power Plant	Brits	Ben	<i>PBMR Ltd</i>	South Africa
1400-1425			08.2.2	Improvement of Software Engineering Performances: A Case Study at Bombardier Transportation - Total Transit Systems Signaling Group	Drolet	Marc	<i>Bombardier Transporation</i>	USA
1430-1455			08.2.3	Optimal integration and test planning applied to lithographic systems	Boumen	Roel	<i>Eindhoven University of Technology</i>	Netherlands
	<i>Golden West</i>	<b>Track 3: Process &amp; Model-Based Systems Engineering</b>						
		Session 8 Track 3: SysML						
		Chair:	<i>S. O. Schulz</i>					
1330-1355			08.3.1	Bridging the Chasm - Tracing from Architectural Frameworks to SysML	Hause	Matthew	<i>Artisan Software Tools</i>	UK
1400-1425			08.3.2	A Formal Universal Systems Semantics for SysML	Hamilton	Margaret	<i>Hamilton Technologies, Incorporated</i>	USA
1430-1455			08.3.3	Enterprise Domain Modelling Process Using SysML for the Tooling Enterprise at the U.S. NNSA's Pantex Plant	McGrath	Daniel	<i>BWXT Pantex</i>	USA
	<i>California</i>	<b>Track 4: SE Approaches &amp; Perspectives</b>						
		Session 8 Track 4: SCENARIOS & STATES						
		Chair:	<i>R. Botta</i>					
1330-1355			08.4.1	Intelligent Operational Scenarios: A a Strategy for Cost-Saving Scenario Selection	Dam	Steven	<i>Systems and Proposal Engineering Company (SPEC)</i>	USA
1400-1425			08.4.2	Exploring Concurrent Activities: Using State Machines to Understand Net-Enabled Operations	Sorensen	Richard	<i>Vitech Corporation</i>	USA
1430-1455			08.4.3	Architecture Scenario Analysis: Estimating the Credibility of the Results	Gammelgard	Magnus	<i>Royal Institute of Technology/KTH, Stockholm, Sweden</i>	Sweden

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Time	Location	Session	Reference	Title	Author		Affiliation	Country
<b>WEDNESDAY, 27 June 2007</b>								
	<i>Town &amp; Country</i>	<b>Track 1: Systems of Systems &amp; Intelligent Enterprises</b>						
		<b>Session 9 Track 1: HUMAN FACTORS</b>						
		<b>Chair:</b>	<i>H. Crisp</i>					
1530-1555			09.1.1	Human Functional Analysis of Lean Staffing: Extensions to the Department of Defense Architecture Framework (DoDAF)	Lintern	Gavan	<i>General Dynamics</i>	USA
1600-1625			09.1.2	Overcoming engineering challenges of providing an effective user interface to a large scale distributed synthetic environment on the US Teragrid: A systems engineering success story	Kalawsky	Roy	<i>Loughborough University</i>	UK
1630-1655			09.1.3	Organizational Strategies for Systems Engineering Capability Improvement	So	Maria	<i>NASA/Goddard Space Flight Center</i>	USA
	<i>San Diego</i>	<b>Track 2: Commercial Systems Engineering &amp; Transit</b>						
		<b>Session 9 Track 2: NOTABLE APPROACHES</b>						
		<b>Chair:</b>	<i>H. Negele</i>					
1530-1555			09.2.1	Optimized Airport Security Infrastructure System (OASIS)	Gonzalez	Jamie	<i>George Mason University</i>	USA
1600-1625			09.2.2	Object Oriented Systems Engineering Method (OOSEM) applied to Joint Force Projection (JFP), a Lockheed Martin Integrating Concept (LMIC)	Friedenthal	Sandy	<i>Lockheed Martin, Advanced Concepts</i>	USA
1630-1655			09.2.3	Standardized Process as a Tool for Higher Level Systems Thinking	Lamb	Caroline	<i>Massachusetts Institute of Technology</i>	USA
	<i>Golden West</i>	<b>Track 3: Process &amp; Model-Based Systems Engineering</b>						
		<b>Session 9 Track 3: SysML</b>						
		<b>Chair:</b>	<i>R. Burkhart</i>					
1530-1555			09.3.1	Teaching SysML Through a Process Led Approach for Systems Engineering: Lessons for the SysML Standard	Battersby	David	<i>BAE Systems Systems Engineering Innovation Centre</i>	UK
1600-1625			09.3.2	Simulation-Based Design Using SysML - Part 1: A Parametrics Primer	Peak	Russell	<i>Georgia Tech</i>	USA
1630-1655			09.3.3	Simulation-Based Design Using SysML - Part 2: Celebrating Diversity by Example	Peak	Russell	<i>Georgia Tech</i>	USA
	<i>California</i>	<b>Track 4: SE Approaches &amp; Perspectives</b>						
		<b>Session 9 Track 4: COSYSMO &amp; CHANGEABILITY</b>						
		<b>Chair:</b>	<i>B. Ewald</i>					
1530-1555			09.4.1	Lessons Learned From Industrial Validation of COSYSMO	Valerdi	Ricardo	<i>MIT</i>	USA
1600-1625			09.4.2	Incorporating Security and Survivability into the System of Systems Architecting	Singh	Atmika	<i>University of Missouri-Rolla</i>	USA
1630-1655			09.4.3	Defining Changeability: Reconciling Flexibility, Adaptability, Scalability, and Robustness for Maintaining System Lifecycle Value	Ross	Adam	<i>Massachusetts Institute of Technology</i>	USA
1800-1930	<i>Exhibit Hall</i>	<b>Reception</b>						
1930-2200	<i>Town &amp; Country</i>	<b>Banquet and Entertainment</b>						

INCOSE 2007 SYMPOSIUM PROGRAM								
Time	Location	Session	Reference	Title	Author		Affiliation	Country
<b>THURSDAY, 28 June 2007</b>								
0700-0745	<i>Tiki Pavilion</i>	Speakers/Session Chairs' Breakfast						
0800-1300		Exhibits Open						
<b>HALF-DAY TUTORIALS (Ticket Required)</b>								
0800-1200	<i>Towne</i>		H07	ISO/IEC 15288 & CMMI: Systems Engineering Similarities & Differences	Walden	David	<i>Sysnovation, LLC</i>	USA
0800-1200	<i>Sunrise</i>		H08	Managing Requirements Risk	Gelperin	David	<i>Clear Specs Enterprises</i>	USA
0800-1200	<i>Sunset</i>		H09	Enterprise Architecture Standards for Intelligent Enterprise SE	Martin	Richard	<i>Tinwisle Corporation</i>	USA
	<i>Town &amp; Country</i>	<b>Track 1: Systems of Systems &amp; Intelligent Enterprises</b>						
		<b>Session 10 Track 1: INTELLIGENT ENTERPRISES</b>						
		<b>Chair:</b>	<b>A. Daw</b>					
0800-0825			10.1.1	Capability Engineering: Learning from Practice	Necaille	Christophe	<i>Defence R&amp;D Canada</i>	Canada
0830-0855			10.1.2	Simple Yet Profound Enterprise Impact	Mooz	Harold	<i>The Center for Systems Management</i>	USA
0900-0925			10.1.3	Evaluating Product Development Task Interactions Using Network Analysis	Collins	Shawn	<i>Department of Anthropology, University of Connecticut</i>	USA
0930-0955			10.1.4	Systems Engineering for the Intelligent Enterprise - More Important Than You May Think	Kaffenberger	Ruediger	<i>Ferchau Engineering GmbH</i>	Germany
	<i>San Diego</i>	<b>Track 2: Commercial Systems Engineering &amp; Transit</b>						
		<b>Session 10 Track 2: PANEL</b>						
0800-1000			10.2.0	Integrating Systems Engineering with Program and Project Management	Ade	Randy	<i>SAIC</i>	USA
	<i>Golden West</i>	<b>Track 3: Process &amp; Model-Based Systems Engineering</b>						
		<b>Session 10 Track 3: PANEL</b>						
0800-1000			10.3.0	Modeling the Enterprise: Case Studies and Approaches	Griego	Regina	<i>Sandia National Laboratories</i>	USA
	<i>California</i>	<b>Track 4: SE Approaches &amp; Perspectives</b>						
		<b>Session 10 Track 4: PANEL</b>						
0800-1000			10.4.0	U.S. OSD Systems of Systems Eng Guide: Statues Report & INCOSE Support	Dickerson	Charles	<i>BAE Systems</i>	USA
	<i>Royal Palm 1&amp;2</i>	<b>Track 5: SE With Risk &amp; Uncertainty</b>						
		<b>Session 10 Track 5: PANEL</b>						
0800-1000			10.5.0	Cultural, Psychological and Motivational Factors in Risk Management: "Major Issues" or "Let's Not Go There"	Stein	Jack	<i>Terumo Cardiovascular Systems Corp</i>	USA
	<i>Royal Palm 3&amp;4</i>	<b>Track 6: SE Processes, Standards &amp; Heuristics</b>						
		<b>Session 10 Track 6: PANEL</b>						
0800-1000			10.6.0	Is the Systems Engineering Profession Quantitative Enough?	Zonnenshain	Avigdor	<i>RAFAEL</i>	Israel

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Time	Location	Session	Reference	Title	Author		Affiliation	Country
<b>THURSDAY, 28 June 2007</b>								
	<i>Town &amp; Country</i>	<b>Track 1: Systems of Systems &amp; Intelligent Enterprises</b>						
		<b>Session 11 Track 1: INTELLIGENT ENTERPRISES</b>						
		<i>Chair:</i>	<i>C. Tulodieski</i>					
1030-1055			11.1.1	An Approach to a Network Centric Product Development System	Abbott	Russell	<i>University Of Missouri Rolla</i>	USA
1100-1125			11.1.2	Systematic Enterprise Definition	Grady	Jeffrey	<i>JOG System Engineering, Inc.</i>	USA
1130-1155			11.1.3	Tour d horizon in Requirements Engineering - Areas Left for Exploration	Kossmann	Mario	<i>AIRBUS UK</i>	UK
	<i>San Diego</i>	<b>Track 2: Working Group Session</b>						
1030-1200				ATIWG Roundtable	Mackey	Bill		
	<i>Golden West</i>	<b>Track 3: Working Group Session</b>						
1030-1200				Workshop on Model-Based Enterprise				
	<i>California</i>	<b>Track 4: Working Group Session</b>						
1030-1200				Architecture	Dickerson	Charles		
	<i>Royal Palm 1&amp;2</i>	<b>Track 5: Working Group Session</b>						
1030-1200				TLTLeadership	Kitterman	Dick		
	<i>Royal Palm 3&amp;4</i>	<b>Track 6: Working Group Session</b>						
1030-1200				Panel 4.3	Ring	Jack		
1200-1300	<i>Exhibit Hall</i>	<b>Lunch</b>						
1300-1500	<i>Town &amp; Country</i>	<b>Closing Keynote/Plenary Session</b>						
				Engineering Risk Analysis: A Systems Approach	Pate-Cornell	Elisabeth	<i>Stanford University</i>	USA
1500-1600	<i>Atlas Foyer</i>	<b>Closing Reception</b>						
<b>FRIDAY, 29 June 2007</b>								
0800-1300		<b>General Atomics Technical Tour</b>						