



Systems Engineering

Achieving Quantum Improvements

0800-0830					Registration & Breakfast				
0830-0835					<p>Welcome to INCOSE — Theater Mike Dickerson, President, INCOSE-LA Chapter</p>				
0835-0850					<p>Welcome to Boeing: Perspectives on Achieving Quantum Improvements — Theater Ronald E. Johnson, Vice President, Engineering and Operations, Air Force Systems, Boeing Integrated Defense Systems</p>				
0850-0950					<p>Keynote Address: MILSATCOM — the Grand Systems Engineering Challenge — Theater Christine M. Anderson, Program Director, Military Satellite Communications Joint Program Office, Space and Missile Systems Center</p>				
0950-1040					<p>Systems Engineering - The View from Mars — Theater Erik Antonsson, Chief Technologist, JPL</p>				
1040-1055					<p>Introduction to Exhibitors — Theater Jim Manson, Boeing</p>				
1055-1110					Break				
		<p>Track 1 — Room A2/A3 led by Elliot Axelband, <i>University of Southern California</i></p>		<p>Track 2 — Room C1/C2 led by Joel Sercel, <i>California Institute of Technology</i></p>		<p>Track 3 — Room B1/B2 led by Ravi Mathur, <i>Boeing</i></p>		<p>Track 4 — Room E led by Paul Cudney, <i>SDC</i></p>	
1110-1210		<p><u>Space Mission Architecture</u></p> <p>1. Space Mission Architecture, Anthony Freeman, JPL 2. Mars Network Architecture, Gary K. Noreen, JPL</p>		<p><u>Systems Engineering Trends</u></p> <p>1. The Dangers of Cargo Cult Systems Engineering, Joel Sercel, California Institute of Technology. 2. "Whither Systems Engineering? A Look at Trends in Systems Engineering.", Scott Jackson, Boeing.</p>		<p><u>Cost Estimation</u></p> <p>1. System Level Costs - Eliminating the Guesswork, Evin Stump, Galorath Inc. 2. The Combined Impact of Information Sharing and Under Funded Budgets on Cost Estimation, George Fox et al, JPL</p>		<p><u>Software Systems Engineering</u></p> <p>1. Flavors of the Capability Maturity Model IntegrationSM (CMMISM), Karen Owens, The Aerospace Corp. 2. Civil Certification of Military Air Vehicles, Joan Stredler, Boeing.</p>	
1210-1300					Lunch - Cafeteria				
1300-1500		<p><u>Architecture-level Analysis</u></p> <p>3. SMC Specs and Standards Roadmap, Harlan F. Bittner, The Aerospace Corp. 4. Systems Analysis Approach for NASA and its Projects, Programs, and Enterprises, Charles R. Weisbin et al, JPL. 5. Systems Architecture and Engineering Applied to Technology Development, Craig Peterson, JPL. 6. Simulation-Based Engineering of Complex Systems, John Clymer, Cal State Fullerton</p>		<p><u>Systems Engineering Processes and Tools</u></p> <p>3. Boeing's System-of-Systems Engineering (SoSE) Process, Marion L. Butterfield, Boeing. 4. Systems Safety Engineering Revitalization, Thomas C. Meyers, USAF. 5. SE Tool Selection Requirements and Methodology, Jim Pederson, Boeing. 6. Critical Activities in PERT Networks, Scott Singleton, Boeing.</p>		<p><u>Cost and Risk Management</u></p> <p>3. Risk Management Implementation Difficulties, Mike McDonough (Jim Pederson), Boeing 4. An Integrated Risk Management Process, Joe Saad, and John C. Hsu, Boeing. 5. Risk Informed Design for System Life Cycle, R.S. Hill and W. Nutt, Golder Associates Inc. 6. A Process for Integrating Risk Management, Cost-Risk Analysis and Earned Value Management, Reuven Dar, The Aerospace Corp.</p>		<p><u>Panel: Integrating Software and Systems Engineering</u></p> <p>Moderator: Mike Bernabe, Boeing</p> <p>Panelists:</p> <p>Software: Rick Hefner, Northrop Grumman; George Huling, Disciplined Software Consulting; Karen Owens, The Aerospace Corp. Systems: Jim Hines, Boeing; Mike Krueger, ASE Consulting; Jack Ring, Innovation Management</p>	
1500-1515					Break				
1515-1615		<p><u>Requirements</u></p> <p>7. The Road to Requirements, Jim Van Gaasbeek, Northrop-Grumman. 8. Formalizing Informal Stakeholder Requirements Inputs, Hasan Kitapci, USC.</p>		<p><u>Training Future SE's</u></p> <p>7. Program System Engineering – Developing the Discipline, Lynn Baroff, JPL. 8. Training Systems Engineers for System Acquisition, Jack Fisher et al, Systems Engineering Associates.</p>		<p><u>Cost Modeling and Tracking</u></p> <p>7. Bridges Between Systems Engineering and the M&P Domain, Susan Ruth, The Aerospace Corp. 8. Integrating Systems Engineering and Earned Value Management, Paul J. Solomon, Northrop-Grumman.</p>		<p><u>The Unified Modeling Language for Software Development</u></p> <p>7. Managing Software Development Spirals with Unified Modeling Language Artifacts, Michael Mott, Boeing. 8. Executable UML Should Not Be Used as a Specification, George Huling, Disciplined Software Consulting.</p>	
1615					Close of Conference				