

NASA/JPL Symposium & Workshop on Model Based Systems Engineering

January 25-27, 2017

PST	Wednesday - Jan. 25 (321 Auditorium)	PST	Thursday - Jan. 26 (321 Auditorium)	PST	Friday - Jan. 27 (321 Auditorium)
7:45	Coffee, tea, pastries	7:45	Coffee, tea, pastries	7:45	Coffee, tea, pastries
		8:00	Daily announcements	8:00	Daily announcements
8:15	Introduction, Purpose, Goals: Chi Lin, Manager, JPL Systems Engineering and Formulation Division, Engineering Development Office Welcome: Rene Fradet, Director, JPL Engineering & Science Directorate Agenda & Logistics: David Nichols, JPL (Ret.)	8:15	European Space Developments and Main Technical Challenges Franco Ongaro, Director of Technical and Quality Management (D/TEC), and Head of ESTEC, European Space Agency	8:15	Maintaining 'One Source of Truth' Using MBSE on ARRM Brian Muirhead, Project Manager, Asteroid Rendezvous & Retrieval Mission, JPL
8:45	Digital Engineering in Complex Systems: From Leadership Understanding Through Application Kristen Baldwin, Acting Deputy Assistant Secretary of Defense, Systems Engineering	8:45	INCOSE Systems Engineering Vision: Model Based Engineering and the Journey Towards Digital Enterprises Alan Harding, President, International Council On Systems Engineering (INCOSE), BAE Systems Global Engineering Fellow	8:45	Digital Environment and MBSE Progress at Airbus Space Ralf Hartmann, VP SE Support & Digital Transformation, Airbus Space Systems
9:15	Is Systems Engineering Really Engineering? Steve Jenkins, Chief Engineer, JPL Integrated Model-Centric Engineering	9:15	Progress Check: How Well Is Europa Clipper MBSE Addressing SE Challenges? Todd Bayer, Europa Clipper Flight System Engineer and Principal Engineer, JPL	9:15	System Design and Analysis Models in Concert with Discipline Design Models Michael Watson, Senior Systems Engineer, NASA/MSFC
9:45	Model-Centric Engineering - Insights and Challenges: Primary Takeaways from a Government-Industry Forum Dinesh Verma, Dean Emeritus, School of Systems and Enterprises, Professor, Executive Director, DoD Systems Engineering Research Center (SERC)	9:45	Why is Human-Model Interactivity Important to the Future of Model-Centric Systems Engineering? Donna Rhodes, Principal Research Scientist and, Director, Systems Engineering Advancement Research Initiative (SEArI), MIT	9:45	Architecting and Incorporating Large Scale MBSE Solutions at Boeing Bob Malone, Brittany Friedland, John Herrold, Systems Engineers, Boeing
10:15	Break	10:15	Break	10:15	Break
10:35	JPL Director Office Welcome: Gen. Larry James, JPL Deputy Director	10:35	Panel 2: Systems Engineering Practitioners' Perspectives on MBSE Moderator: Mark Brown, Manager, Systems Engineering & Formulation Division, JPL Panelists: Brittany Friedland/Boeing, Elyse Fosse/JPL, Chris Oster/LMC, Bill Othon/JSC, Tom Randolph/JPL, George Sawyer/BAE	10:35	Panel 3: Integrating System Design & Analysis Tools Into A Systems Modeling Environment Moderator: Sandy Friedenthal, INCOSE Fellow Panelists: George Walley/Ford, Harald Eisenmann/Airbus, Chris Schreiber/LMC; Vendors: Scott Ragon/Phoenix Model Center, Mark Sampson/Siemens, Manas Bajaj/Intercax
10:50	Panel 1: Model Based Systems Engineering As Part of the Digital Transformation Moderator: Heinz Stoewer, Distinguished Visiting Scientist, JPL Panelists: Dave Miller/MIT, Brian Cooke/JPL, Ron Williamson/Raytheon, Philomena Zimmerman/DoD, Chris Davey/Ford Motor Company, Franco Ongaro/ESTEC, David Richardson/GSFC	11:50	Lunch (on your own) 303 Cafeteria	11:50	Lunch (on your own) 303 Cafeteria * JPL Movie in 321 Auditorium
12:05	Lunch/Networking (on your own) 303 Cafeteria * JPL Movie in 321 Auditorium	1:00	JPL Walking Tour (for those confirmed only)	1:00	Breakout 8: MBSE Software Tools, State of Practice and Needs Breakout 9: MBSE and System Architecting in Mission Formulation/ Concept Breakout 10: MBSE Assurance and Project Assessment
1:30	Breakout 1: Ontologies, Formalisms, & Reasoning Breakout 2: Model-Based Acquisition Breakout 3: Model-Based System Verification and Validation	2:30	Breakout 4: Visualization and User Interfaces for MBSE Breakout 5: How to Capture, Search, and Create Views in a System Model Breakout 6: Integrated Modeling, Analysis, and Simulation Across Systems and Domain Engineering Breakout 7: Model-Based Risk and Uncertainty Management	1:00	Presentations/Demos: 1. MBSE for Architecture Trades During Concept Exploration (Blossom/JPL); 2. Acquisition and Early Evaluation of Architecture with Arcadia and Capella (Bonnet/Thales); 3. NASA MBSE Pathfinder and CoP (Miller/NASA) 321 Auditorium
	Leads: de Koning/Jenkins 321-515 Leads: Hoheb/Zimmerman 321-129 Leads: Standley/Wilkerson 321 Auditorium	Lead: Davidoff /Rhodes 321-127 Leads: Karban/Schreiber 321 Auditorium Leads: Othon/Watson 321-515 Leads: Oster/Paredis 321-215	Leads: Bajaj/Kerzhner 321 Auditorium Leads: Bandecchi/Case/Freeman 321-215 Leads: Boyles/Groen 321-418		
4:00	Break/Return to 321 Auditorium	3:30	Break/Return to 321 Auditorium	3:30	Break/Return to 321 Auditorium
4:15	Breakout Outbrief	3:45	Breakout Outbrief	3:45	Breakout Outbrief
4:30		4:15	Breakout Outbrief	4:15	Workshop Summary
4:45		4:45	Break/Return to 321 Auditorium	4:20	Open Mic
5:00		5:00	Breakout Outbrief	5:00	
5:15		5:15		5:15	

Intro/Summary Panel Plenary Breakout