MBSE highlights



33rd Annual INCOSE international symposium

hybrid event

Honolulu HI USA

Saturday, July 15

08:00-12:00 **Basic SysML Modeling with Automated Validation Support** Michael Vinarcik (INCOSE Michigan Chapter); Chris Swickline (SAIC) 13:30-17:00 **Digital Engineering Basics** Frank Salvatore (SAIC); Darryl Howell (Powell Consulting Group) Sunday, July 16 08:00-17:00 Model-Based Cyber-Physical Systems Engineering: The James Webb Space Telescope as a Case in Point Dov Dori (Technion, Israel Institute of Technology) 08:00-12:00 Systems Engineering MBSE Implementation in Your Organization Mark Sampson (Siemens) Monday, July 17 10:00-10:40 **Enterprise Adoption of DE and MBSE: Lessons from Research** Tom McDermott (Stevens Institute of Technology); Kaitlin Henderson (Virginia Tech) Preserving and Sharing Knowledge - Extending the UAF Security Views 11:30-12:10 with Libraries, Patterns and Profiles Matthew Hause (SSI) Making Sense of Alphabet Soup: MBSE and DE 13:30-14:10 David Long (Blue Holon) 13:30-14:10 Digital Engineering, The Next Chapter Daniel Hettema (OUSD (R&E) 14:15-14:55 Shoring Up Atlantis: Knowledge Management for MBSE Sharon Fitzsimmons (The Boeing Company) 14:15-14:55 Engineering Sustainable Products with Collaborative Multi-Domain Modeling Sky Matthew MBSE Model Management Pain Points - Wait, this looks familiar! 15:30-16:10 Barry Papke (Dassault Systems); Matthew Hause, David Hetherington (System Strategy, Inc.) 16:15-16:55 Orion SysML Model, Digital Twin, and Lessons Learned for Artemis I Gregory Pierce (NASA Johnson Space Center); Joshua Heeren (Jacobs); Terry Hill (NASA Johnson Space Center) Tuesday, July 18

All times are HST

10:00-10:40

11:30-12:10

Systems Engineering Technology: Closing the MBSE Modeling Gap through

MoSSEC – The Common Meta Language Supporting Digital Transformation

Community Colleges

Kyle Hall (Airbus); Juan Carlos Mendo (Boeing)

Chris Crumbly, Holly Ralston (Institute for Digital Enterprise Advancement)

15:30-16:10 Explore the Lighter Side of MBSE Casey V Medina, Allison Lyle (Studio SE, Ltd.) 15:30-16:10 Architecting Digital Engineering Requirements for Risk Management & Systems Architecting Shannon Dubicki, Risa Gorospe (The Johns Hopkins University Applied Physics Laboratory) 16:15-16:55 MBSE Model Integration in a Mixed-Fidelity Environment Alexander Gaspar, Eric Martens, Bradley Kukurza (Boeing)

16:15-16:55 On Model Re-Use: Best Practices for the Application and Configuration of Model-Based Patterns

Devon Clark (Deloitte Consulting); Devon Clark (INCOSE)

Wednesday, July 19

Tuesday, July 18 (continued)

10:00-10:40	Applying MBSE in Space Based Systems Development
	Chris Swickline (SAIC); Chris Madariaga, Ahmad Bashir (Raytheon)
10:45-11:25	Where Are You on Your MBSE Journey Mark Sampson (Siemens)
11:30-12:10	System Model Validation: A Framework and SysML Profile for Model-based Systems Engineering James Winton, John Colombi, David Jacques (U.S. Air Force Institute of Technology)
13:30-14:10	Case Studies in Disaster: Modern Digital Engineering Methods and Error Detection Heidi Jugovic, Christopher Swickline (SAIC)
14:15-14:55	Exertional Heat Strain Detection: Application of the Human Performance Model Based Systems Engineering System Architecture (MBSE-SA)
	Tara Sarathi, Heather Morris (MIT Lincoln Laboratory)

Thursday, July 20

08:00-08:40	Scalable, Flexible Implementation of MBSE and DevOps in VSEs: Design Considerations and a Case Study Cailin Simpson, Steven Simske (Colorado State University)
08:45-09:25	Architecting Descriptive Models for MBSE Ryan Noguchi (Aerospace Corporation)
10:00-10:20	Put an end to my MBSE frustration, Please Kyle Hall (Airbus)
10:20-10:40	Next-generation MBSE: Model as the Cyber-physical System Driver Dov Dori (Technion)
10:40-11:00	INCOSE Systems Engineering Laboratory Status Heidi Davidz (ManTech)
11:00-11:20	Building Program Archetypes for Digital Engineering David Long, Nicole Hutchison
11:20-11:40	Strategies to Accelerate MBSE Adoption in SE Practices: Results of the Systems Engineering - Modernization Study Tom McDermott (Stevens University)
11:40-12:00	Proposing an MBSE Minimal Viable Product for Missions of all Risk Levels Regan Bullister (LMCO)

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MBSE Lightning Round