

34<sup>th</sup> Annual INCOSE international symposium

hybrid event

Dublin, Ireland July 2 - 6, 2024

## In person (IST)

Tuesday, July 2

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	10:00-10:40	ANDES, the high-resolution spectrograph for the ELT: the adoption of Model-Based Systems Engineering approach Alessio Zanutta
	10:00-10:40 Broadcasted	A Proposal for Model-Based Systems Engineering Method for Creating Secure Cyber-Physical Systems Gerrit Muller
	10:45-11:25	Black Hole Cinema: Application of Systems Engineering Methods to Expand and Enhance an Earth-sized Telescope Garret Fitzpatrick
	14:15-14:55	<b>Extending Systems Engineering for Safety-Critical Defence Applications</b> <i>Katia Potiron</i>
	15:30-16:10	Developing an Integrated Mission Simulation to Evaluate Technology Impact on Military Scenarios  Tara Sarathi
	15:30-16:10 Broadcasted	Engineering in the Digital Age - Revolutionize Digital Engineering with MBSE Prof. DrIng. Lydia Kaiser
Wednesday, July 3		
	10:00-12:10 Broadcasted	MBSE Lightning Round Daniel Call, Yilong Yang, Sean Flanagan, Ryan Noguchi, Terry R. Hill
	10:00-10:40	An MBSE group project challenge as a learning experience for Masters degree students Paul Davies
	13:30-14:10 Broadcasted	Accelerating Digital Transformation through MBSE, Multi-physics Simulation and Digital Twin in Industry Jacques Martinez
	14:15-14:55 Broadcasted	The A to Z for Implementing a Digital Transformation on a Systems Project Kerry Lunney
	16:15-16:55	The Digital Engineering Factory: Considerations, Current Status, and Lessons Learned Joe Gregory
	17:00-17:40	How the INCOSE Model-Based Capability Matrix has Steered Model-Based Systems

**Engineering Transformation at NASA** 

**Gregory Pierce** 

## Thursday, July 4 10:00-10:40 **Enhancing Data-Driven Decision Making through MBSE** Greg Parnell 10:00-10:40 How to Develop a Digitization Plan for Standards Leslie McKay 10:45-11:25 One Model to Rule them All ... and Through Emergence, Bind Them Jawahar Bhalla 11:30-12:05 **Digital Data Packages: Making the Digital Thread Work** David Long 13:30-14:55 Panel: Peace, Love, and Digital Understanding: How system models will bring us all together Moderator: Kirsten McCane Panelists: Becky Petteys, Dennis Reed, Cristina Valera Munoz, Risa Gorospe, Alexandra Beaudouin 14:15-14:55 Practice to adapt MBSE as agility enabler to the agile software development for mobility platforms Daisuke Hashimoto **Enabling Digital Engineering with Federated PLM - Experiences from the Heliple-2 Project** 15:30-16:10 Jad El-Khoury **Integrating AI with MBSE for Data Extraction from Medical Standards** 16:15-16:55 Mohammad Chami Broadcasted **Towards a Systems Engineering Ontology Stack** 16:15-16:55 Joe Gregory Friday, July 5 09:00-09:40 Digital Engineering Capability Guidance and Maturity Assessment Framework Broadcast<u>ed</u> Michael Shearin 09:00-11:10 Panel: Building the digital bridge between MBSE and Engineering Simulation **Moderator:** Phyllis Marbach Panelists: Bernardo Delicado, Tim Morris, Alexander Busch, Hans Peter DeKoning 11:15-11:55 Excuse me Sir/Madam, which Model? Erik Herzog Saturday, July 6 08:00-17:00 Tutorial: Open Source System Modeling with Python Ryan Longshore