



2021
Annual **INCOSE**
international workshop
Virtual Event
January 29 - 31, 2021



Roadmap Focus Team

Update at IW 2021

Frank Popielas

Members:

- Frank Popielas
- Roger Burkhart
- Peter Coleman
- Rod Dreisbach
- Ed Ladzinski
- Matteo Nicolich
- Greg Garstecki

Topics / Focus 2020

- Provided a better focus around “What is Model-Based...?”
 - Working together with T&D Focus Team to update / create proper definitions: [see Ed Ladzinski's update](#)
- SMS Community Meeting Coordination
- Focus on
 - Digital Thread
 - Digital Twin
 - Standards

SMS Presentations 2020

- “Model Characterization Pattern” (Bill Shandel, INCOSE): March 10, 2020
- “Digital Twin - Its Maturity Levels and Related Impact on Business Maturity and Competitive Position” (Frank Popielas, SMS_ThinkTank): June 9, 2020
- “A Coherent Digital Thread as Enabler of Systems Thinking Across the System Lifecycle: Where’s the Simulation?” - Malcolm Panthaki, Aras and Ernesto Mottola, Toyota Motor Europe (TME) : July 13, 2020
- "SE Driven Modelling & Simulation Method; a Paradigm Shift in Digital System Development" Pascal Paper (Airbus): September 08, 2020
- "Update on MoSSEC & LOTAR MBSE" Adrian Murton (Airbus): October 13, 2020
- “Progress on SysML Version 2” (Hans Peter de Koning, DeKonsult): November 10, 2020
- “MIC (Model Identity Card)” – Eric Landel: December 8, 2020

Events Support 2020

- INCOSE IW 2020; Torrance, CA; January 25-28, 2020
- CAASE 2020: June 16-18, 2020; Indianapolis, IN (virtual)
 - Presentations on **Digital Twin**
 - Presentations on **Digital Thread**

Decreasing The Need For Prototyping By Taking A Coupled Approach To Complex Problems (J. Crist, EnginSoft USA; Lvl: 1)	Systems Modeling & Simulation
Placeholder: Systems Thinking Webinar Series Panel Discussion (M. Panthaki, ARAS Corporation; Lvl:)	Systems Modeling & Simulation
Mission Focused MBSE (D. McCary, SAIC; Lvl: 1)	Systems Modeling & Simulation
The Future of Performance Design with MBSE Approach Using the Example of an Electric Powertrain (T. Reimer, Dassault Systemes Deutschland GmbH; Lvl: 2)	Systems Modeling & Simulation
Integrating Analysis with a Model-Based Feature Information Network (MFIN) (D. Seidensticker, MSC Software; Lvl: 1)	Systems Modeling & Simulation

- NAFEMS Americas & RevSim hosted Webinar Series:
 - with focus on “Exploring the Impact of Systems Thinking & Model-Based Engineering”
 - www.nafems.org/community/regional/americas/systems-thinking-webinar-series/

Topics / Focus 2021

- Help to develop a better strategy for INCOSE's and NAFEMS's visibility and participation in the other organization
- Continued focus on standard
- Develop “SMS Vision 2025 and Beyond”
- Providing a better focus around “What is Model-Based...?”
 - Create a joint NAFEMS/INCOSE flyer on this topic: include the various model definitions when writing it
- Continue SMS Presentation Topics and combine with company experiences (use cases from end users)
 - Please provide ideas for topics so we can coordinate them / what is of interested beyond what we suggest / bring forward
- Event Support

Events Support 2021

- INCOSE IW 2021; Virtual: January 29-31
 - [IW2021 when / where \(incose.org\)](https://www.incose.org/iw2021)
- Simulation in the Automotive Industry: Creating the Next Generation Vehicle 2021 – March 16-18; Virtual
 - [NAFEMS - Simulation in the Automotive Industry: Creating the Next Generation Vehicle 2021](https://www.nafems.org/conferences/simulation-in-the-automotive-industry-creating-the-next-generation-vehicle-2021)
- INCOSE International Symposium 2021
 - [IS2021 when / where \(incose.org\)](https://www.incose.org/is2021)
 - July 17-22, 2021 – Honolulu, HI, USA
- NAFEMS WC 2021
 - [NAFEMS World Congress 2021](https://www.nafems.org/conferences/world-congress-2021)
 - October 25-29, 2021 – Salzburg, Austria

SMS Community Roadmap – high level

