



**2019**

Annual **INCOSE**  
international workshop

**Torrance, CA, USA**

January 26 - 29, 2019

# **NAFEMS-INCOSE System Modeling and Simulation**

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[www.incose.org/iw2019](http://www.incose.org/iw2019)

# NAFEMS-INCOS E System Modeling and Simulation CHAIR



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Roger Burk hart (burk hartrogerm@johndeere.com)

**MEMBERS**  
200

## INCOS E CONNECT ADDRESS



<https://connect.incose.org/WorkingGroups/NAFEMS/SitePages/Home.aspx>

## INCOS E WEB PAGE



<http://wiki.omg.org/MBSE/doku.php?id=mbse:smSWG>

# Charter Summary



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## WG PURPOSE/MISSION

To develop a vendor-neutral, end-user driven consortium that not only promotes the advancement of the technology and practices associated with integration of engineering analysis and systems engineering, but also acts as an advisory body to drive strategic direction for technology development and standards in the space of complex engineering.

This group will support activities that bridge engineering analysis and systems engineering to provide digital solutions; and optimize the integration of systems engineering and simulation solutions for both OEM and supplier.

This includes education, communication, promotion of standards, and development of requirements that will have general benefits to both communities with the identification of benchmarks and major strategic issues.

## WG GOAL(S)

1. Share information through both INCOSE and NAFEMS events and at monthly online meetings, including speakers, panels, and publications.
2. Share Best Practices by both end users and tool suppliers in the integration of Systems Engineering with Engineering Analysis.
3. Establish consensus and publish standardized Terms & Definitions used by various groups.
4. Communicate needs for Emerging Standards in the scope of Systems Modeling and Simulation.

## WG SCOPE

The use of interdisciplinary functional, architectural, and behavioral models (with physical, mathematical, and logical representations) in performing MBSE to specify, conceptualize, design, analyze, verify and validate an organized set of components, subsystems, systems, and processes

# IW Outcomes



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## IW Outcomes

Overview of WG and its current activities presented at MBSE Workshop.

Held half-day meeting to:

1. Plan roadmap of 2019 activities.
2. Begin work of Terms & Definitions subteam.
3. Discuss standards-based interoperability through a panel of multiple standard groups that address elements of the SMSWG scope.

Begain planning of a special session for INCOSE at NAFEMS World Congress (June 17-20, 2019 in Quebec City).

# Planned Work past IW



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## PLANNED ACTIVITIES

Monthly telecons for updates and information sharing with WG members.

Three parallel subteams:

1. Roadmap and Sharing of Best Practices
2. Terms & Definitions
3. Standards Ecosystem

Participation and special sessions at upcoming events of both NAFEMS and INCOSE.

## PLANNED WORK PRODUCTS

Flyer on What is Systems Modeling and Simulation?

Flyer on What is Functional Mockup Interface (FMI)?

Online compilation of Terms & Definitions across multiple groups.