

# Model-Centric Engineering, Part 2: *Introduction to System Modeling*

## INCOSE Chapter Meeting

International Council on Systems Engineering • Cleveland-Northern Ohio Chapter

Tuesday  
September  
16<sup>th</sup>

Member Meeting • All Welcome

**Who:** INCOSE Cleveland-Northern Ohio Chapter

**What:** Video and Discussion

**When:** Tuesday, September 16, 2014, 5:30 PM

**Where:** [Moosehead Hoof and Ladder](#)

<http://www.mooseheadrestaurant.com/hoof-and-ladder-olmsted-falls/>

7989 Columbia Rd, Olmsted Falls, OH 44138

**Discussion Facilitator:** Marian Cronin, Vantage Partners

**Recorded Presenter:** Steve Jenkins, NASA Jet Propulsion Laboratory

**Registration Requested:** See Eventbrite link in email announcement or at

<http://www.incose.org/cleveland/>

**Introduction:** System design has been enhanced by the power of Computer-Aided Design (CAD) tools for the past few decades. While these CAD tools have advanced mechanical, electrical, thermal, and other engineering disciplines, systems engineering generally remains a document-centric practice. Recent advances in system modeling are beginning to transition systems engineering to the CAD era. Model-Centric Engineering aims to integrate discipline-specific models with a shared system model. Model-Based Systems Engineering (MBSE) incorporates system requirements, design analysis, and verification and validation activities – across the system lifecycle – within this shared system model. Join fellow C-NO Chapter Members and local MBSE practitioners in an interactive MBSE review session. As a group, we will review NASA-produced overviews of MBSE and system modeling. The MBSE practitioners will answer questions and facilitate group discussion of fundamental MBSE concepts and implementation approaches. The June and September discussions will inform the C-NO Board of Directors toward development of customized, hands-on training in the Systems Modeling Language (SysML) and an MBSE tool. The resulting C-NO Chapter MBSE Tutorial will be scheduled for Fall 2014.

**Topics to be Covered in September:** What we mean by “system models”; what makes a good system model; basics of the Systems Modeling Language (SysML); how to customize SysML for your domain; MBSE methodologies; and examples of how NASA incorporates MBSE within its systems engineering processes.

*The meeting is **free** and **open** to the public. For those in attendance, food and beverage purchases may be made.*

<http://www.INCOSE.org/Cleveland>

