

**National Defense Industrial Association  
Systems Engineering Division  
Modeling and Simulation Committee**

**Prepared for the NDIA Systems  
Engineering Division Meeting  
10 April 2019**

**Chris Schreiber**  
Lockheed Martin Corp.

**David Allsop**  
The Boeing Co.

- **The mission of the NDIA SE M&S Committee is to advance the understanding and use of modeling and simulation in the practice of systems engineering**
- **2019 meetings (continue to be scheduled for the day before the NDIA SE Division meeting)**
  - 06 February (LM GVC – Crystal City)
  - 09 April (LM GVC – Crystal City)
  - 05 June (LM GVC – Crystal City)
  - 06-07 August workshop (LM GVC – Crystal City)



# NDIA Systems Engineering M&S Comm. Meeting Agenda, 9 April 2019



TIME	PRESENTATION	PRESENTER
12:00	Assemble and Introduction	Schreiber & Allsop
12:30	Subcommittee Action and Latest Discussions	Schreiber & Allsop
13:00	Source Selection using models	Norwood
14:30	Break	
14:45	Government progress towards model based acquisition	Zimmerman
16:00	Digital Viewpoint Model Progress (DEIXWG)	McGervey



# ***Lessons Learned from an ACAT-I DoD Acquisition Program***

***GBSD MBSE Summit  
Hill AFB, Layton, Utah  
27-28 June, 2017***

***Sean McGervey***  
***Program Chief Architect***  
***[Sean.McGervey@jhuapl.edu](mailto:Sean.McGervey@jhuapl.edu)***



**JOHNS HOPKINS**  
APPLIED PHYSICS LABORATORY

# Summary

## So, What Lessons Did We Learn on the Program?

- **Integration of MBSE into a Contracting Strategy**
  - *Understand how you intend to use the model before asking for one*
- **Documenting MBSE Proposal Requirements**
  - *Ask for deliverables that demonstrate how the Contractor arrived at their design, not just what the design is*
- **Configuration Control Across MBSE Environments**
  - *Convene a Joint Architecture Working Group (JAWG) and document the process by which reviews of the architecture model will be handled*
  - *Use a web-based portal for collaboration and feedback capture*
- **Synchronization of Multiple MBSE Environments**
  - *Understand the points of traceability between models in order to facilitate sharing between organizations*
- **Executing an MBSE-Driven Design Review**
  - *Model artifacts (e.g., use case scenarios) are a great storytelling device!*
  - *Using the “live” model is beneficial, but is not without risk*

- **2019 INCOSE IW**

- Briefed current status of products

- DEIXPedia
- Logical Architecture
- Standards
- Digital View Model

- Resources

- <https://www.incose.org/symp2019/home>