

## Recent Trends and Advances in Model-based Systems Engineering

### Conference General Co-Chairs, USC



**Prof. Azad M. Madni**  
Systems Architecting  
and Engineering



**Prof. Barry Boehm**  
Systems and Software  
Engineering

### Technical Program Co-Chairs, USC



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**Ms. Marilee Wheaton**  
The Aerospace Corp.

Systems engineering is undergoing a transformation motivated by mission and system complexity, and enabled by technological advances such as model-based systems engineering, digital engineering, formal modeling, and the convergence of systems engineering with other disciplines. This conference is focused on exploring recent trends and advances in model-based systems engineering (MBSE) and the synergy of MBSE with simulation technology and digital engineering. Researchers have submitted papers on MBSE methods, modeling approaches, standards, languages, and economics analysis to respond to the challenges posed by 21st century systems.

### Keynote Speakers

- **Gen. (Ret.) Ellen M. Pawlikowski**, Judge Widney Professor, University of Southern California
- **Lt. Gen. (Ret.) Larry James**, Deputy Director, Jet Propulsion Lab
- **Mr. Scott Miller**, Executive Chief Engineer, Automated Driving, and Executive Director, AV/EV Integration, GM
- **Prof. Garrett Reisman**, Astronautical Engineering, University of Southern California

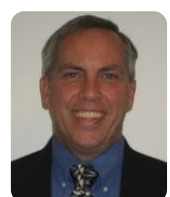
### Tutorials

- **MBSE Overview** (Dr. Michael Sievers, University of Southern California)
- **Parallel Agile** (Mr. Doug Rosenberg, University of Southern California)
- **Preparing MBSE for Industry 4.0 & IOT** (Dr. Dov Dori, Technion - Israel Institute of Technology)
- **Data Analytics** (Dr. Courtney Paulsen, Southern Utah University)
- **Enterprise Modeling using UAF** (Mr. Barry Papke, 3DS)

### Conference Co-Managers



**Mr. Terry Rector**  
The Aerospace Corp.



**Mr. Eric Belle**  
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