

***Growing the
Lean Community***
An LAI Plenary Conference

**Lean
Aerospace
Initiative**



**Breakout Session:
Understanding the Product
Development Value Stream**
April 10, 2001

Chaired By:
Hugh McManus, MIT



- 1:30 Matching Product and Process Architectures;
Steve Eppinger, MIT**
- 2:30 Understanding Risk and Uncertainty; John Deyst, MIT**
- 2:50 Break**
- 3:20 Lean Product Development Definitions and Concepts;
Hugh McManus, MIT and Ed Harmon, NGC**
- 3:40 PD VS Mapping Tools; Rich Millard, MIT**
- 4:00 Air Combat Systems Educational Lean Event: Product
Definition Elements; Helen Kozycz, NGC**
- 4:20 Value Stream Analysis Program; Adi Choudri, Aerojet**
- 4:40 Questions and Discussion: Next steps**



Using Value Stream Thinking

Understand PD issues, even outside the context of classic lean:

➤ **Steve Eppinger**

➤ **product, process, and program architectures and their interactions**

➤ **Using DSM tool**

➤ **John Deyst**

➤ **New perspective on the PD value stream in terms of risk and uncertainty reduction**



Applying Lean Techniques

- **Hugh McManus and Ed Harmon**
 - Applying “classic” lean to PD
- **Rich Millard**
 - Value Stream mapping techniques for PD
- **Helen Kozycz**
 - Case study in Lean PD process improvement
- **Adi Choudri**
 - VIPS PD Value Stream management tool



➤ **Steve Eppinger**

- **General Motors LFM Associate Professor of Management Science and Engineering Systems**
- **Sloan School of Management and a joint appointment in MIT's Engineering Systems Division**
- **Co-director, Center for Innovation in Product Development**
- **Research and teaching in improving product design and development practices**

➤ **John Deyst**

- **Aero-Astro; industry experience at Draper Labs**
- **Information Systems for Aerospace Vehicles, Control Theory and Methods, Fault Tolerant Systems**
- **LAI PD**



- **Hugh McManus and Ed Harmon**
 - **Colead for PD at LAI**
 - **Title?**
- **Rich Millard**
 - **Title - Academy; future?**
- **Helen Kozycz**

- **Adi Choudri**