**Session 3: Application Context** – what approaches should the systems engineering profession pursue to improve healthcare delivery?

**DISCUSSION GOAL:** Define the integrating environments in the form of use cases that link performers and systems into a process and map the capabilities to those processes in order to identify high payoff applications of the systems approach.

**OUTLINE:**
- Use post-operative patient controlled analgesia as a characteristic clinical scenario that represents many of the issues where systems approach creates benefits.
- Based on presentations, attempt to define the “integrating environment” which drives safety and effectiveness.
- Discuss with attendees (hopefully presenters will take strong role) what key use cases exist within this environment.
- Facilitate attendees giving input on relationships between the performers, systems, capabilities and use cases.

**Characteristic Clinical Scenario:** Post-Operative Patient Controlled Analgesia

Use Case: Equipment Setup & Data Entry
Use Case: Patient Transition to Post Op
Use Case: PCA Operations & Monitoring
Use Case: Other #1
Use Case: Other #2

**PACKAGE: Integrating Environment**

Use Case 2.1
Use Case 2.2
Use Case 2.3

Use Case 3.1
Use Case 3.2
Use Case 3.3

Use Case 4.1
Use Case 4.2
Use Case 4.3