Cal Poly Aerospace and Boeing Meeting Discussion Points:

May 8th, 2015

Cal Poly (Eric Mehiel)

* Astronautics Curriculum and Senior Spacecraft Design Course – An Overview
* Systems Engineering in general at Cal Poly
* Cal Poly Modeling and Simulation: The Horizon Simulation Framework (HSF) and Picasso
  + Complex System Simulation and Requirements Verification
  + Current Tool Chain
    - Modeling– Picasso – C# and XML, or HSF – C++
    - Simulation – HSF – C++, Lua, and XML
    - Visualization – Custom Matlab code
  + Current Project
    - Re-develop HSF and Picasso to capitalize on developments in MBSE and sysML
    - Re-design tool chain
      * Modeling – Papyrus/Picasso/IronPython
      * Simulation – HSF
      * Visualization – Picasso/Matlab
    - Add further system modeling analysis capabilities
      * Failure statistics
      * Enhanced scheduling algorithms
* Model Based Systems Engineering (MBSE)
* Systems Modeling Language (sysML)
* Question: What are Boeing’s needs and plans regarding MBSE, sysML, and in general, the future of systems engineering?

Boeing (?)