

SMC-IT Panel Discussions:  
**Space IT Systems Case Studies**

Chair: Dr. Philip Varghese, JPL

**ABSTRACT**

Space Information Systems have evolved over the past several decades from simple toolsets in the early ages of space exploration into very complex systems encompassing an enormous breath of technologies. On the way, we have learned valuable lessons in designing, building, integrating and deploying these systems. With increasingly ambitious space missions covering greater distances from Earth and often operating in hostile environments, managing mission risks through increased but prudent application of intelligent space information systems has been gaining increased attention in the space exploration programs around the world. The lessons learned over the years are crucial in implementing space information systems of the future.

This panel will present case studies of actual Space Information Systems, outlining key properties of the systems, experiences gained from their use in the real operational environment, and the resulting feedback for future system development. The panel will include IT experts who participated in the implementation of space information systems at the NASA Centers as well as at international partner facilities for space exploration.

**PROPOSED PANELISTS:**

(need to end up with 6-8)

Anne Elson*	-	Deep Impact (DI) Flight Mission
Mark Holdrige+	-	GSFC, Messenger Flight Mission
Earl Maize*	-	JPL, Cassini Flight Mission
Karen Moe*	-	GSFC, Intelligent data Understanding
David Nichols*	-	JPL, IT & Software Systems Division
Keyur Patel*	-	JPL, Space Infrared Telescope Facility (SIRTF)
Kanna Rajan+	-	AMES, Autonomous Reasoning group
Glenn Reeves*	-	JPL, MER Flight Mission
TBD+	-	NASDA / JAX

**NOTES:**

\* Already invited and accepted

+ Have not invited, but would likely accept