

**LEAG Annual Meeting**

15-18 November, 2009

LPI, Houston, Texas

**Executive Summary**

Date Prepared: October 27, 2009

Presenter's Name: Carole A. McLemore

Presenter's Title: Dust Management Project (DMP) Lunar Simulant Task Manager

Presenter's Organization/Company: NASA/Marshall Space Flight Center

**Presentation Title:** "The Need for Lunar Simulants"

**Key Ideas:** Lunar Simulant Customers; Testing in Relevant Environments; Risk Reduction; Types of Lunar Simulants Available and Needed to Meet User Test Objective Requirements and Applications; Comparison of Lunar Regolith vs. Simulants; Figures of Merit; Demand for Lunar Simulant Types vs. Supply; Plan for Development of New Simulants to Meet User Needs (Feedstock, Processes, Quality Assurance, etc.)

**Supporting Information:** Constellation Projects and ETDP Projects and Roadmaps; Simulant Types Availability; Simulant Types Characterization Results; Simulant User Surveys and Needs Assessment; Simulant "Fit for Purpose" Matrices; Current Lessons Learned using Simulants; and other Documentation developed by the Lunar Simulant Team.