

IAF/IAA SPACE LIFE SCIENCES SYMPOSIUM (A1)
Interactive Presentations - IAF/IAA SPACE LIFE SCIENCES SYMPOSIUM (IP)

Author: Dr. Daniel Winterhalter
Jet Propulsion Laboratory - California Institute of Technology, United States,
daniel.winterhalter@jpl.nasa.gov

Dr. Joel S. Levine
United States, joelslevine@gmail.com
Dr. Russell Kerschmann
NASA Ames Research Center, United States, rkerschmann@gmail.com

MOON DUST AND THE HUMAN EXPLORATION OF THE MOON - 2ND NESC LUNAR DUST
WORKSHOP

Abstract

A major surprise of the Apollo Program was the impact of lunar dust on the astronauts and their equipment. In response to concerns about the impact of lunar dust on human health and safety and on the success of lunar surface operations, the NASA Engineering and Safety Center (NESC) became engaged in the dust problem, organizing a first workshop in 2007. It is now time to update the findings and discussions of that workshop with progress made in the intervening years, and a second Lunar Dust Workshop is planned to take place February 11 to 13, 2020 at the Lunar and Planetary Institute in Houston, Texas.

In addition to the plenary sessions, the 3-day workshop will have three breakout panels: 1. The Nature and Characteristics of Lunar Dust 2. Lunar Dust and Its Impact on Human Health 3. Lunar Dust and Its Impact on Human Surface Systems (Spacesuits, habitats, mobility systems, etc) and Operations

The results of the workshop will be published in the form of an NESC Report, NASA Technical Memorandum(s), and a series of White Papers. We will discuss details of the planning efforts at the 2019 IAC Congress.