

Coping with Dust for Extra-terrestrial Exploration

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For contemplated return missions to the surface of the Moon, coping with the adverse effects of dust exposure is a significant challenge. Historical Apollo Lunar Rover missions experience with dust will be reviewed, along with extended exploration analysis results using the LUROVA mission support thermal model. Conducted and planned post Apollo dust testing on Earth will be highlighted, and alternate dust mitigation and/or avoidance options will also be presented.