

## Apollo Lunar Dust Lessons for Artemis Crews

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We must do everything possible to keep lunar dust out of habitats and crew lungs.

Five Apollo dust lessons are presented for NASA's future Artemis Moon Missions:

- 1 - Ever present hazardous dust cannot be avoided on the Moon.
- 2 - Adequate low enough vacuum environment dust removal testing on Earth is not presently possible.
- 3 - Valuable "Science Time" was wasted in fruitless "Housekeeping".
- 4 - We must pay attention to alarming lunar dust toxicity test results.
- 5 - We must listen to the right persons about dust problems and solutions.

Dust "Isolation Technologies" can be applied for Artemis to mitigate hazardous

lunar dust exposure and significantly increase Moon Science and Exploration time:

- 1) Flexible and light weight reusable suit covers can be used to protect suits and suit joints. Then, those reusable suit covers can be left "Outside".
- 2) Suit Ports and Airlocks on the habitats or mobility vehicles can be used to allow dust covered suits and/or suit covers to be left outside.

These lunar dust isolation technologies have been tested on Earth and proven to work by NASA, and can be easily applied to Artemis Moon exploration systems.