National Aeronautics and Space Administration



LEAS Lun

Jason Vaughn Todd Schneider Paul Craven Joey Norwood

Environmental Effects Branc Marshall Space Flight Cente Huntsville, AL 35812

nin the agency, namely the LETS is a cryo-pumped chamber facility capable of (LETS) ally controlled vacuum system, diagonamber is equipped with a full elect of radiation sources including ana limultraviolet, electron, and proton qua

charging, levitation and migrat dust particles, 2) to simulate radiation environment on the surface, and 3) to electrically charge the lunar simulant enhancing the chamber 30 in. (0.8 m) simulating the 13. Chamber 30 in. (0.8 m) simulating the 13. Chamber 30 in. (0.8 m) simulating the 13. Chamber 30 in. (1.2 m) long environment. LETS has numerous controlled vacuum system, diagnostic instruments including TREM simber is equipped with a full electrostatic probes, residual gas sources including analyzer (RGA), temperature controlled outsitz crystal microbalance (TQC). pon. The unique feature of LETS and particle imaging velocimeter (PIV). it contains a large lunar simulant Finally, LETS uses continuous Labview 8 in. x 40 in. x 6 in.) holding 75 data acquisition for computer JSC-1a simulant while operating monitoring and system control.



-150 °C to +130 °C



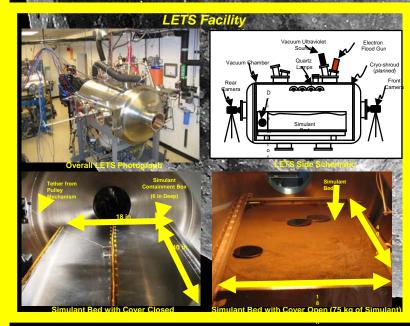


Cryo-pumped vacuum chamber with base sure of 1 x 10⁻⁷ Torr

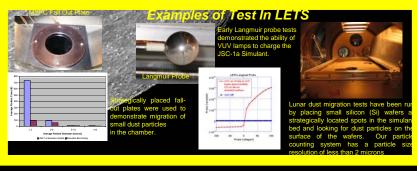
stem has quartz lamps installed and demonstrated to +150 C. Cryo-Shroud is peing purchased.

lood gun has been installed and used for hatging simulant. Proton source under

Lunar simulant bed completed. 75 kg of simulant in vacuum chamber at 10⁻⁷ Torr. Negotiations for LHT-2m underway.







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