

Thursday, March 26, 2009
POSTER SESSION II: PURSUING LUNAR EXPLORATION
6:30 p.m. Town Center Exhibit Area

Wilson T. L. Lee K. T.

[Photon Luminescence of the Moon](#) [#1918]

The space-radiation-induced photon luminescence existing on the Moon is derived from SEP and GCR sources. Its spectrum is present in the upper X-ray and lower γ -ray portion of the electromagnetic spectrum. Dose mitigation measures are addressed.

Petro N. E. Bleacher J. E. Clark P. E. Mest S. C. Lewis R.

[Optimizing Lunar Surface Science: Comparison of Shackleton Base Scenario and Sortie Surface Scenarios at the Nectaris Basin, Marius Hills, and Olivine Hill](#) [#2206]

The work reported here responds to the need to provide the Constellation program with science requirements for a surface system architecture and metrics for surface operations. We compare surface scenarios for an outpost at Shackleton to three sorties.

Fong T. Broxton M. Deans M. C. Helper M. Hodges K. V. Schaber G. G. Schmitt H. H. Smith T.

[Traverse Planning for Robotic Recon and Human Exploration of Hadley Rille](#) [#1233]

We recently conducted a lunar traverse planning exercise at NASA Ames. The objective was to plan an EVA traverse for a hypothetical, manned mission to the Apollo 15 region and then identify where ground-level data (acquired by robotic scouting) would help refine the plan.

Ruberg R. Wood C. A. Reese D. D. Lightfritz C. Harrison A.

[MoonWorld: Virtual Fieldwork in Second Life](#) [#2229]

MoonWorld is a Second Life simulation that models the Moon as a tool for learning lunar science through virtual fieldwork. Avatars climb into craters to collect samples and observe structure to understand crater formation.

Boldoghy B. Kummert J. Varga T. P. Szilágyi I. Darányi I. Bérczi Sz. Varga T. N. Hudoba G. Jr.

[Buildings of Great Inner Space Created with Low Asset Requirement and High Efficiency for the Moon](#) [#2458]

For constructing lunar base buildings of great inner space we propose a plan, architectural concept, and building technology of using local materials by various technologies, baking, bagging and moving of the regolith to cover the building.