Chair: Barbara Cohen


Endogenous Lunar Volatiles [#6030]

This abstract discusses numerous outstanding questions on the topic of endogenous lunar volatiles that will need to be addressed in the coming years. Although substantial insights into endogenous lunar volatiles have been gained, more work remains.

2:15 p.m. Hashizume K. *

Supplies and Storage of Volatiles on Moon [#6009]

I would like to review the current situation of volatile studies of Moon, particularly on the origins and behaviors of volatiles at the lunar surface.

2:30 p.m. Saxena P. * Killen R. M. Airapetian V. Petro N. E. Mandell A. M.

Post-Formation Moderate Volatile Transport and Loss on the Moon: Lunar Stratigraphy and Paleo-PSR’s [#6017]

Post-formation moderate volatile loss and transport on the Moon may be recorded in lunar stratigraphy and in paleo-permanently shadowed regions.

2:45 p.m. Honniball C. I. * Lucey P. G. Kaluna H. M. Li S. Sun L. Costello E.

Groundbased Lunar Surface Water: Latitude, Longitude Systematics and Detection, and Abundances at Small Geologic Targets [#6042]

Three micron groundbased observations of lunar surface water show latitude and time variations. Water abundances were derived for small geologic features.

3:00 p.m. Fagan T. J. * Fujimoto A. Kosaka D.

Role of Fluids in Lunar vs. Terrestrial Gabbros During Late-Stage and Post-Magmatic Crystallization, a Case Study [#6013]

Incompatible elements, including H$_2$O, are concentrated in late-stage magmatic pockets in gabbros from the Earth and Moon. Feldspar near the pockets is albitized by water (Earth case) or has discontinuous, unexplained changes in composition (Moon).

3:15 p.m. DISCUSSION — Moderator: Nagaoka H.

3:45 p.m. BREAK