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[EJ] Evening Poster | P (Space and Planetary Sciences) | P-PS Planetary Sciences

## [P-PS05]Lunar science and exploration

convener:Hiroshi Nagaoka(Waseda Univ.), Tomokatsu Morota(Graduate School of Environmental Studies, Nagoya University), Masaki N (名古屋大学宇宙地球環境研究所, 共同), Masahiro KAYAMA(Department of Earth and Planetary Material Sciences, Faculty of Science, Tohoku University)

Wed. May 23, 2018 5:15 PM - 6:30 PM Poster Hall (International Exhibition Hall7, Makuhari Messe)

Scientific data sets acquired by not only Japanese lunar mission SELENE (Kaguya), but also other countries' missions, have become new standard for lunar science. Analyses of these data have been providing several new knowledge and changing some hypotheses into the truth of the Moon. In concurrence with these studies, some countries including Japan are planning future lunar missions. In this session, we will discuss scientific results based on newly acquired lunar data, strategy for future missions including SLIM, and theoretical and experimental studies for lunar science.

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## [PPS05-P12]Volcanism in the Marius Hills region and Uzume Project

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Lunar mare basalts provide us with key information on the thermal evolution for a small terrestrial planet and the composition of the lunar mantle. Understanding the composition, volume, and eruption age of mare basalts is fundamental to reveal volcanic history of the Moon. We have investigated the eruption ages and compositions of mare basalts by employing Kaguya LISM data (Figure). Here we review our findings and scientific significance of the Marius Hills region as a target in the future mission.