
[JJ] Evening Poster | S (Solid Earth Sciences) | S-VC Volcanology

[S-VC43] Volcanic and igneous activities, and these long-term forecasting

convener: Teruki Oikawa (GSJ, National Institute of Advanced Industrial Science and Technology), Takeshi Hasegawa (Department of Earth Sciences, College of Science, Ibaraki University), Daisuke MIURA (一般財団法人 電力中央研究所 地球工学研究所 地圏科学領域, 共同), Nobuo Geshi (Geological Survey of Japan, The National Institute of Advanced Industrial Science and Technology)

Sun. May 20, 2018 5:15 PM - 6:30 PM Poster Hall (International Exhibition Hall7, Makuhari Messe)

This session focuses on generation and accumulation processes of magmas, magma-crust interaction and degassing, and modes of eruption, long-term forecast of eruption, dispersal and emplacement of the volcanic products. The discussion spans petrological, geochemical, geophysical, and geological processes related with volcanic activity and products in the past, the present and the future.

[SVC43-P06] Eruption history and magma plumbing system during the post-caldera stage in Mashu volcano, eastern Hokkaido

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Mashu volcano is characterized by repeated explosive eruptions during 35 thousand years, and formed a caldera (6 x 7 km diameter) by successive plinian eruptions and following a large-scale pyroclastic flows at about 7500 years ago (Katsui et al., 1975; Sumita, 1990; Hasegawa et al., 2009; Kishimoto et al., 2009).

After the formation of the Mashu caldera, magma plumbing system has been changed on the basis of difference in chemical compositions of the rocks between caldera stage and post-caldera stage. However, the magma plumbing system during the post-caldera stage has not been clarified. We show detailed eruptive sequence during the post-caldera stage including effusion period of lavas, and transition process of magma plumbing system of the post-caldera stage.