[EJ] Evening Poster | S (Solid Earth Sciences) | S-GL Geology

[S-GL29]Mud Volcano and Geochemical, Geological, Geomorphological, and Biological-related phenomena

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Thu. May 24, 2018 5:15 PM - 6:30 PM Poster Hall (International Exhibition Hall7, Makuhari Messe) Mud Volcano (MV) is one of geological feature that observed over the world. The MV brings fluid and sediment from several km below the ground. A complete understanding of MVs are desired due to a point of carbon cycle from earth's depth to surface, migration of deep subsurface biosphere, impact on greenhouse warming, social disaster, civil engineering, and so on for examples. However, MVs are still not understood enough because of its diverseness.

We propose this MV session to concern MV studies from various methods, fields, and time scale, and to discuss on MVs from a multilateral perspective. We welcome scopes of discussion include their relationships to earthquakes, possible utilization for resources, as well as scientific studies on mechanisms of MVs, to understand the MV phenomena.

[SGL29-P03]Cenozoic methane-seep communities in southwestern

Japan

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Japanese Islands yield many (more than 80) Cretaceous to Holocene cold-seep communities. Most of them are distributed in central Japan and Hokkaido island, and rare in southwestern Japan although there are relatively many Recent cold-seeps in Nankai Trough region. Recently, several Cenozoic cold-seeps in accretionary complex distributed in Wakayama and Kochi prefectures were investigated. This presentation mainly introduces two cold-seeps; late Eocene to early Oligocene Tanami seep in Kushimoto, Wakayama Prefecture (Amano et al., 2013; PPP) and late Oligocene to early Miocne Mitsu seep in Muroto, Kochi (umpublished data). The Tanami seep was formed during subduction of the Pacific and the Kula plates beneath the Eurasian Plate during the Paleogene (late Eocene to early Oligocene). The Mitsu seep would be formed during subduction of Shikoku Basin ridge. Both seeps are seep-related carbonate blocks with abundant molluscan assemblages including chemosynthetic bivalves, such as vesicomyids, lucinids, thyasirids and solemyids. Those ancient seeps would be important to understand evolution of cold-seep systems in southwestern Japan, including Nankai Trough region.