## Mc-P003

## Room: Lounge

Time: June 28 12:30-14:00

Mineralogical study on fluorescence and phosphorescence of calcite:glendonite calcic stromatlite,carbonates from Akatani mine,etc.

# Takafumi Miyata[1], Junji Akai[2]

[1] Geology Sci, Niigata Univ., [2] Departm. Geol. Fac. Sci. Niigata Univ.

Varieties and its mechanisms of phosphorescence of calcite are not fully understood. Phosphorescence and fluorescence of calcite from various localities of different occurences were examined. Fluorescence was fundamentally red. Three different phosphorescences were observed:slightly reddish, yellowish and blueish white. Fluorescent calcite is often found in specimens of metallic ore origin. On the other hand, phosphorescence corresponds to calcite of some sedimentational origin. Specimens of biogenic calcite were also examined.