Mc-P009 Room: Poster Time: June 9 17:30-19:30

## High-Ca and Low-Ca boninitic differentiates from Chichi-jima, Bonin Islands : Especially bronzite andesites

# Kazuhito Yajima [1], Hirokazu Fujimaki [2], Naoshi Kuroda [3]

[1] Inst. of Min., Petr. and Econ. Geol., Tohoku Univ, [2] Inst. Min. Pet. Econ. Geol., Tohoku Univ., [3] Inst. of Geosciences, Shizuoka Univ

The bronzite andesites from the Mikazukiyama F. are the differentiates from high-Ca boninite of the same formation, while the bronzite andesites from the Marubewan F. are the differentiates from low-Ca boninite of the later formation. High-Ca boninitic series which bring cpx groundmass show constant SiO2, increasing FeO\* as differentiate, while low-Ca boninitic series with cpx and opx groundmass show increasing SiO2, moderate decreasing FeO\*. Low-Ca boninitic series frequently show evidence of magma mixing. These feature which are also known among tholeite and calc-alkaline magmas may generally exist on the differentiation process of magmas.