K130-P019 Room: Poster Session Hall Time: May 25

## Petrochemical Study on Weathering of the Ryoke Plutonic and Metamorphic Rocks in the Mikawa Plateau

# Shinichiro Ueno[1]

[1] Environmental studies, Nagoya Univ.

Petrographic and XRF analyses were made on unweathered rocks and their weathering derivatives, which have been collected at 16 outcrops of the Ryoke plutonic and metamorphic rock bodies in the Mikawa plateau. The compositional characteristics during weathering process in this region are summarized as follows;

- (1) Chemical compositions of soil as the ultimate weathering product moderately inherit those of the parent rock.
- (2) Newly developed weathering index in this study along with conventional weathering indices such as CIA and CIW are applicable to estimate the weathering degree of the plutonic rocks in this region.
- (3) Weathering rate inferred from various weathering indices is generally higher in the SiO2-poor rock than in the SiO2-rich rock.