## Bacterially promoted dissolution of kaolinite

# Motoharu Kawano[1]; Katsutoshi Tomita[2]

[1] Fac. Agri., Kagoshima Univ; [2] Earth and Environmental Sci., Kagoshima Univ

Dissolution experiments of kaolinite in biotic systems containing P. fluorescens (1E+5, 1E+6, 1E+7, 1E+8, 1E+9 cells/ml) were carried out to confirm the effects of bacteria on dissolution rates and saturation states. The dissolution experiments were performed using batch reactors containing 0.2 g of kaolinite and 100 ml of 10 mM NaCl solution at 25oC for up to 40 days. Results of the experiments indicated that the bacteria have strong increasing effects on both dissolution rates and saturation indices depending on their concentrations.