## Ga-015

## Mass Transfer Property of Subducting Oceanic Plate

# Tetsuro Hirono[1], Satoru Nakashima[2]

[1] Interactive Research Center for Sci., TIT, [2] Interactive Research Center, Tokyo Inst. Technol.

In order to elucidate the mass transfer properties of subducting oceanic plate, we measured permeability and diffusivity using core samples from Izu-Mariana subduction zones. The permeabilities of clay samples ranged from 10-6 to 10-8 cm/s, while ones of hard rocks were about 10-11 cm/s. This difference may result from their void structures.