## Se-P003

## Room: IR

## Shallow seismic reflection profiling across the Ota fault

# Kumiko Sato[1], Satoshi Matsumoto[2], Tomoki Tsutsui[3], Mikiya Yamashita[4], Jinsuke Sugi[5]

[1] Mining., Akita Univ, [2] Applied Earth Sci., Akita Univ., [3] AVL, Kyoto University, [4] Mining., Akita Univ, [5] Akita Univ

http://dips11.akita-u.ac.jp/

Ota fault is a northern part of surface break accompanied with reverse faulting of Rikuu Earthquake in 1896 (M7.2). There are several studies about subsurface structure of southern part of the surface break (Senya fault). A purpose of this study is to discuss difference of structure between Ota and Senya faults. By carrying out P-wave shallow seismic reflection survey across the surface break, we found two faults in shallower part of CMP stack section than a few hundreds meter depth beneath the reflection profile. One of them located in the western part of survey line is low-angle thrust-fault corresponding to the extension of the surface break of the Rikuu Earthquake. It is considered that the other located in the east of the earthquake fault is Quaternary fault activated in the past.