

**J161-029**

**Room: 301B**

**Time: May 15 10:00-10:15**

## Analogue model experiments of accretionary prism; formation of decollement at low friction layers

# Yasuhiro Yamada[1]; Naoki Nagamura[2]; Toshifumi Matsuoka[3]

[1] Civ. Earth Res. Eng., Kyoto Univ.; [2] Civil and Earth Resources Eng., Kyoto Univ; [3] Kyoto Univ

<http://earth.kumst.kyoto-u.ac.jp/yamada/>

Plate subduction produces horizontal slip surfaces called decollement in accreted sediments. Since the sediments commonly include several low friction layers, these should control the location of the decollement. We have been working on analogue experiments to model the accretion process and examine how these layers control the decollement formation. Our results suggest that decollement surfaces commonly seized their activity and moved to low friction layers nearby.