

## **Chaotic sediments in the shallow part of plate subduction zone -How to detect paleoseismic events from geologic information?-**

# Yuzuru Yamamoto[1]

[1] GSJ, AIST

Chaotic sedimentary bodies formed in association with earthquake-induced liquefaction/ slumping are valuable marker of paleoseismic events. In particular, because surface slumping and liquefaction products erupted to the seabed occurred simultaneously with the depositional age of coherent layers just above the chaotic body, they are useful in determining the quantitative timing of paleoseismic events when combined with a detailed chronology. This presentation will show you the examples of chaotic sediments that are indicative of paleoseismic events, and mention some criteria to identify the useful chaotic sediments to know the events.