



*Ústav struktury a mechaniky hornin AV ČR, v.v.i.*

V Holešovičkách 41, 182 09 Praha 8

Talk invitation

## **Earthquake surface ruptures and fault geometry - key ingredients to rupture processes**

Lecturer: **Yann Klinger**

(Institute de Physique du Globe de Paris, France)

**on Monday the 15<sup>th</sup> of April 2019 at 10:00 am**

**in the conference hall of Ústav struktury a mechaniky horniny AV ČR**

Surface ruptures associated to large continental earthquakes have long been overlooked as not carrying useful information. With the advance of new imaging techniques our view of these surface ruptures is changing. By using high-resolution space imaging it becomes possible to access at the same time a large vision of a rupture and a wealth of details. Thanks to multiple acquisitions, including images before earthquakes, in addition to mapping, it is now possible to quantify the deformation and to access new information. Using these original observations, we show that surface ruptures can bring critical information on the way how earthquake rupture propagates, and even at a more fundamental level, how faults are structured.



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