

# EGU 2020 Online

NH4.1

**Seismic hazard based on paleoseismicity, active faulting and surface deformation data - the challenges of FAULT2SHA**

Co-organized by SM3/TS5

Convener: Oona Scotti | Co-conveners: Esther Hintersberger, Bruno Pace

[Displays](#)

| Chat Fri, 08 May, 14:00–15:45

# Introduction to the session

This FAULT2SHA session aims to spark a discussion between field earthquake geologists, crustal deformation modelers and fault modelers/seismic hazard practitioners around fault-related uncertainty issues and their inclusion in fault-based PSHA as well as in PFDHA.

The submitted abstracts cover different aspects from approaches used to study active faults as well as presentations discussing existing efforts on how fault-related information is translated into dedicated databases of primary and secondary surface information and then used in fault models.

# Potential topics for discussion

Depending on the final displays uploaded by the different authors, the following may be common issues that we could discuss over the chat during the session:

- Can we distinguish between co-seismic and a-seismic deformation along fault scarps?
- How to build slip rate profiles along faults ?
- Can slip rate variability in an interacting system of faults be used to propose potential multi-fault rupture scenarios?
- Weight of short term (GPS, historical seismicity) versus long-term (geological) deformation histories in fault-based hazard?
- ...any suggestions welcome before the session