

Friction Day - Program

June, 2nd, Oslo

PGP-CEED Seminar room 414, Institute of Physics, Univ. Oslo

9h – 9h30 : Welcome coffee / Introduction (François & Julien)

9h30 – 12h30: **Friction along interfaces: experiments**

- Karen Mair (PGP, Oslo): Mirror-like faults and power dissipation during earthquakes
- François Renard (PGP, Oslo & Univ. Grenoble): Evolution of the strength of frictional interfaces during healing
- Soumaya Latour (ENS Paris): Foreshocks Activity Processes Inferred from Laboratory Micro-Earthquakes on Crustal Rocks
- Julien Scheibert (Ecole Centrale, Lyon & CNRS): Micromechanics of a multi-contact interface at the onset of frictional sliding
- Riad Sahli (Ecole Centrale, Lyon & CNRS) : Real contact area of a single asperity under shear
- Anja Røyne (PGP, Oslo): Friction experiments using a surface force apparatus

12h30 – 13h30: Lunch

13h30 – 15h00: **Friction along interfaces: models**

- Mathilde Radiguet (EPFL, Lausanne): Importance of viscoelastic rheologies in the persistence of heterogeneous stress fields in dynamic rupture models
- Jørgen Kjøshagen Trømborg (PGP, Oslo): Slow fronts in the rupture of frictional interfaces
- Kjetil Thøgersen (PGP, Oslo): History-dependent friction and slow slip from time-dependent microscopic junction laws studied in a statistical framework

15h00 – 16h00: **Brainstorming session** (everybody interested can bring 1 slide) about topics including: Mechanisms responsible of slow sliding and ruptures in geophysics and engineering? Effect of an asperity on rupture speed? Effect of viscosity on post-rupture relaxation?

18h – Workshop diner

NB: each presentation, 15 minutes + 15 minutes questions.