6th EarthFlows seminar, June 11th-12th 2020

Location: Kelvin (FV316) at the University of Oslo & Zoom (Zoom-link will be sent to all participants before the seminar)

Registration: https://nettskjema.no/a/150584#/page/1

Day 1 – June 11th 2020

0830-0900	*Welcome and coffee*	
	The Fluid Earth	**Discussion leader: Atle Jensen (UiO)**
0900-0910 Kelvin, UiO	*Introduction*: The EarthFlows seminar	**Francois Renard** *(EarthFlows and Njord, University of Oslo)*
0910-0940 Zoom	*Keynote lecture*: Large scale numerical experiments of pitching wings and the role of laminar-turbulent transition	**Dan Henningson** (*KTH Stockholm*)
0950-1000	*Coffee break*	
1000-1020 Zoom	Extreme wave run-ups on a beach	**Ira Didenkulova** (*Tallinn University*)
1030-1050 Zoom	Physics-based modelling of injection-induced coupled processes and fracture deformation	**Inga Berre** (*University of Bergen*)
1100-1120 Kelvin, UiO	Stretching and mixing in two-phase flow in porous media	**Gaute Linga** (*PoreLab and Njord, University of Oslo*)
1130-1230	*Lunch break*	
	The Solid-Fluid Earth	**Discussion leader: Fabian Barras (UiO)**
1230-1250 Kelvin, UiO	Drainage in porous media under influence of a gravitational field	**Knut Jørgen Måløy** (*PoreLab and Njord, University of Oslo*)
1300-1320 Zoom	Irreversible signatures of chaotic mixing	**Tanguy Le Borgne** (*University of Rennes and Njord, University of Oslo*)
1330-1340	*Coffee break*	
1340-1400 Kelvin, UiO	Mammamia, Corona and trajectories of future glacier evolution	**Thomas Vikhamar Schuler** (EarthFlows, *University of Oslo*)
1410-1430 Zoom	Phase field crystal modelling of dislocation nucleation	**Vidar Skogvoll** (EarthFlows and Njord, *University of Oslo*)
1440-1450	*Coffee break*	
1500-1520 Kelvin, UiO	Mineral growth via non-classical pathways: observations using nanoscale imaging	**Christine Putnis** (*University of Münster*)
1530-1550 Kelvin, UiO	Exploring mineral reactivity in 4D	**Catherine Noiriel** (*University of Toulouse*)
1600	*End of day 1*	

Day 2 – June 12th 2020

0945-1000	*Welcome and coffee*	
	The Solid Earth	**Discussion leader: Kristina Dunkel (UiO)**
1000-1030 Zoom	*Keynote lecture*: Deformation bands: strain localization features in granular media	**Håkon Fossen** (*University of Bergen*)
1040-1100 Zoom	Metamorphic differentiation and the evolution of a shear zone	**Andrew Putnis** (*University of Münster*), Jo Moore, Håkon Austrheim, Andreas Beinlich
1110-1120	*Coffee break*	
1120-1140 Kelvin, UiO	Earthquake nucleation in the lower crust by local stress amplifications	**Luca Menegon** (*Njord, University of Oslo*)
1150-1210 Zoom	Modelling arrest of large-scale laboratory earthquakes	**David Kammer** (*ETH Zürich*)
1220-1300	*Lunch in Kelvin*	
1300-1320 Kelvin, UiO	Predicting the proximity to system-scale rupture using fracture networks	**Jess McBeck** (*Njord, University of Oslo*)
1330-1350 Zoom	Deep learning rock mechanics	**Joachim Mathiesen** (*University of Copenhagen and Njord, University of Oslo*)
1350-1400	*Coffee break*	
1410-1430 Kelvin, UiO	Fluid-induced reactivation of faults: a tale of pressure and rupture	**Fabian Barras** (*Njord, University of Oslo*)
1440-1500 Kelvin, UiO	Faulting and surface propagation of seismic ruptures within unconsolidated gravels	**Matteo Demurtas** (*Njord, University of Oslo*)
1510	*End of day 2*	