



5th 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	<i>Welcome and coffee</i>	
	The Fluid Earth	Discussion leader: Atle Jensen (UiO)
0900-0910 Kelvin, UiO	<i>Introduction: The EarthFlows seminar</i>	Francois Renard (<i>EarthFlows and Njord, University of Oslo</i>)
0910-0940 Zoom	<i>Keynote lecture: Large scale numerical experiments of pitching wings and the role of laminar-turbulent transition</i>	Dan Henningson (<i>KTH Stockholm</i>)
0950-1000	<i>Coffee break</i>	
1000-1020 Zoom	<i>Extreme wave run-ups on a beach</i>	Ira Didenkulova (<i>Tallinn University</i>)
1030-1050 Zoom	<i>Physics-based modelling of injection-induced coupled processes and fracture deformation</i>	Inga Berre (<i>University of Bergen</i>)
1100-1120 Kelvin, UiO	<i>Stretching and mixing in two-phase flow in porous media</i>	Gaute Linga (<i>PoreLab and Njord, University of Oslo</i>)
1130-1230	<i>Lunch break</i>	
	The Solid-Fluid Earth	Discussion leader: Fabian Barras (UiO)
1230-1250 Kelvin, UiO	<i>Drainage in porous media under influence of a gravitational field</i>	Knut Jørgen Måløy (<i>PoreLab and Njord, University of Oslo</i>)
1300-1320 Zoom	<i>Irreversible signatures of chaotic mixing</i>	Tanguy Le Borgne (<i>University of Rennes and Njord, University of Oslo</i>)
1330-1340	<i>Coffee break</i>	
1340-1400 Zoom	<i>Mammamia, Corona and trajectories of future glacier evolution</i>	Thomas Vikhamar Schuler (<i>EarthFlows, University of Oslo</i>)
1410-1430 Zoom	<i>Phase field crystal modelling of dislocation nucleation</i>	Vidar Skogvoll (<i>EarthFlows and Njord, University of Oslo</i>)
1440-1450	<i>Coffee break</i>	
1500-1520 Kelvin, UiO	<i>Mineral growth via non-classical pathways: observations using nanoscale imaging</i>	Christine Putnis (<i>University of Münster</i>)
1530-1550 Kelvin, UiO	<i>Exploring mineral reactivity in 4D</i>	Catherine Noiriél (<i>University of Toulouse</i>)
1600	<i>End of day 1</i>	



Day 2 – June 12th 2020

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