



LUCKY #13: International Workshop on Modelling of Mantle and Lithosphere Dynamics

31 August - 5 September 2013 | Hønefoss, Norway

PS 3 Dynamics of Planetary Interiors + Multi-Scale Physics of the crust and lithosphere

Alisic et al.	Shear Banding in a Partially Molten Mantle
Baumann et al.	Constraining the rheology of the lithosphere through joint geodynamic and gravity inversion
Buiter	Numerical models of the response of passive margins to syn-rift surface processes
Caron et al.	Effect of Burgers rheology on Glacial Isostatic Adjustment models
Dabrowski et al.	MILAMIN 2 – Fast MATLAB FEM solver: algorithms, implementation & applications
Delannoy et al.	Virtual Patterson experiment - a way to access the rheology of aggregates and mélanges.
Fry et al.	Depth variable crustal anisotropy, patterns of crustal weakness, and destructive earthquakes in low-strain rate areas
Gac	Control of lithosphere structure on surface deformation in the Central Barents Sea: insights from dynamical modeling
Huerta & Crane	Strain evolution and the relative role of heat and strain rate during continental rupture
Kohut et al.	Formation conditions recorded by OH-point defects in quartz – experimental and analytical approach
Liao & Gerya	Inheritance of continental rifting on incipient seafloor spreading pattern: Insights from 3D numerical modeling
Lourenço & Tackley	The effect of melting and crustal production on plate tectonics on terrestrial planets
Lu et al.	Strong intracontinental lithospheric deformation in South China: implications from seismic observations and geodynamic modeling
Maas et al.	Crystal settling and crystal growth caused by Ostwald Ripening in a terrestrial magma ocean under rotation
Medvedev	Estimating lithospheric stresses: parameters check with applications to the African Plate
Mezri et al.	Impact of fluid-rock interactions and metamorphic reactions on rheological evolution and style of rifting during extension
Noack et al.	Relevance of continents for habitability and self-consistent formation of continents on early Earth
Püsök et al.	Modeling the India-Asia collision zone: 3D simulations and numerical insights
Roy et al.	Landscape response to lithospheric strain localization
Ruh et al.	3D deformation patterns in accretionary wedges: effects of strain and velocity weakening
Schmeling et al.	Symmetric versus asymmetric spreading, rifting, and ridge migration: The role of viscoplasticity
Schroeder et al.	Modelling the influence of faults on a developing river system
Tan	DynEarthSol3D: an efficient and flexible unstructured finite element method to study long-term tectonic deformation
Tétreault & Buiter	A discussion of mantle temperatures in numerical studies of rift-to-drift extension
Trubienko et al.	Interseismic and postseismic deformations associated with 2011 Magnitude 9.0 Tohoku-Oki Earthquake: 2D and 3D Finite Element Models with a viscoelastic rheology
Wallner & Schmeling	Numerical model exploration of a movable emplacement zone for melt extraction in a continental lithospheric extension scenario