



GEODYNAMIK WORKSHOP 2008 PROGRAM

Neustadt an der Weinstraße from 30.09.2008 until 02.10.2008

Tuesday, Sept. 30, 2008

Arrival after 17:00

18.00 Dinner

Afterwards, Ice breaker in the Pfalzkeller of the Kloster

Wedneseday, Oct. 1, 2008

08:00 Breakfast

Welcoming

09:00 until 10:20

Morning Oral Session

Core related Dynamics

- J. Ernst-Hullermann *Precession driven dynamo*
- A. Möller
 Influence of rotation on iron and silicate particles in an early Magma Ocean
 M. Breuer
 R. Ziethe
 Influence of rotation on iron and silicate particles in an early Magma Ocean
 A numerical study on possible driving mechanisms of core convection Planet Formation and Differentiation: A Link between Monte--Carlo
 - Simulations and Computational Fluid Dynamics
- 10:20 Coffee break

10:35 unt	il 12:00	Morning Poster Session
12:30	Lunch	

14:00 until 15:20

Afternoon Oral Session

Mantle related Dynamics

•	L. Schumacher	Mantle convection modeling with depth-dependent viscosity –Effects
		on the convective planform and plume behavior
•	P. Tackley	Modelling Compressible Mantle Convection with Large Viscosity
		Contrasts in a Three-Dimensional Spherical Shell Using the Yin-Yang
		Grid
•	J. Hasenclever	3D numerical modeling of ridge-transform faults using a newly

developed multigrid finite element code written in MATLAB

C. Hüttig Scaling of temperature- and pressure-dependent viscosity convection

15:20-16:00 Coffee break

B. FuttereA. ScurtuM. Ballme	GeoFlow a Dynamics r Non-hotspo	irst Results of Thermal Convection Experiment on ISS s Thermal Convection Experiment for Modelling Mantle t volcano chains originating from small-scale eric convection
17:00 until 18	:30 Af	ternoon Poster Session
18:30 Di	nner	
19:30	Tł	ematic Group discussions in the Pfalzkeller

Thursday Oct 2, 2008

08:00	Breakfast

09:00 until 11:00 Morning Oral Session

Lithosphere related Dynamics

•	U. Hansen	Dynamical Mechanisms Behind Periodic and Episodic Phenomena in
		the Earth's Interior
•	I. Löw	Dynamics of subduction under an active Margin: Effects of rheological
		weakening by fluids and melts Numerical Modelling
•	W. Jacoby	Plumes, the Lower Mantle and Gravity Anomalies

• V. Klemann Glacial isostasy and plate motion

10:20-10:40 Coffee break

B. Kaus
 Insights on the strength of the continental lithosphere from quasiinstantaneous lithospheric models

11:00 until 12:00 Morning Poster Session

12:30 Lunch

14:00 until 15:20

Afternoon Oral Session

Miscellaneous

- G. Richard Numerical modeling of two-phase flow in geodynamics: State of the art, benchmark and perspectives
- A. Fahl
 A. Ismail-Zadeh
 The effect of resurfacing events on dynamic topography of the surface Numerical techniques for solving the inverse retrospective problem of mantle dynamics
- H. Schmeling The role of melting in continental break up, ocean formation and plume-rift interaction

15:20 Coffee break, Poster Session, Discussion

16:30 Departure