Registration

Deadline for registration: November 17th 2017 Hauke.Marquardt@uni-bayreuth.de Participation is free of charge

Organization

Hauke Marquardt is a mineral physicist and head of the Emmy Noether Group "GeoMaX" funded by the German Science Foundation (DFG). Since 2016 he is member of the Young Scholars' Program of the Bavarian Academy of Sciences and Humanities. jungeskolleg.badw.de

Co-sponsor

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BAVARIAN ACADEMY OF SCIENCES AND HUMANITIES

Alfons-Goppel-Straße 11 (Residenz) 80539 München; Sitzungssaal 1, first floor Phone +49 89 23031-0; www.badw.de

DIRECTIONS

U3/U6, U4/U5 Odeonsplatz Tram 19 Nationaltheater No car park available



Mantle Dynamics and Deep Earth Material Cycles

Workshop

20/11/17

9.30 AM - 17.00 PM





Program

15.00 pm

15.30 pm

Experiments and EVPSC on two-phase

DR. NADEGE HILAIRET (Université Lille)

aggregates

Coffee Break

9.30 am	Introduction DR. HAUKE MARQUARDT (BGI Bayreuth)	16.00 pm	Three-axis presses: The path towards higher pressure, lower strain rates, and larger volumes DR. NICOLAS WALTE
9.45 am	Seismic imaging of mantle convection DR. STEPHANIE DURAND		(Heinz Maier-Leibnitz Zentrum München)
	(Universität Münster)	16.15 pm	Role of grain boundaries for mantle deformation
10.15 am	The seismic signature of high-resolution mantle circulation models		FILIPPE FERREIRA (BGI Bayreuth)
	DR. BERNHARD SCHUBERTH (LMU München)	16.30 pm	Seismic structure imaged with off plane signals and its implications to mantle dynamics
10.45 am	Coffee break		LINA SCHUMACHER (Universität Münster)
11.15 am	The preservation of large-scale heterogeneity in Earth's mantle DR. MAXIM BALLMER (ETH Zürich)	16.45 pm	Discussion, Farewell
11.45 am	Mineral scale modelling of two-phase deformation	Mant	le Dynamics and
12.15 pm	DR. MARCEL THIELMANN (BGI Bayreuth) Lunch Break	Deep Earth Material Cycles	
14.15 pm	Deformation of lower mantle phases and analogs PROF. LOWELL MIYAGI (University of Utah)	Convective material flow in Earth's mantle drives plate tectonic processes and generates a material exchange between deep mantle reservoirs and Earth's surface and atmosphere over geologic time. This workshop will bring together researchers	
14.45 pm	Experimental deformation of (Mg,Fe)O at lower mantle P/T-conditions JULIA IMMOOR (BGI Bayreuth)	with expertise in different Earth Science disciplines, inclu- ding observational geophysics, numerical modelling, and experiments, to discuss current concepts on dynamic proces- ses occurring in the mantle and associated material cycles.	

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ate tectoetween deep ere over esearchers s, inclung, and nic processes occurring in the mantle and associated material cycles. A focus will be on the effects of multi-phase deformation and strain localization.