

OpenGeoSys Community Meeting 2020: March 12 | 13

DAY 1				Time
Registration and Welcome Coffee				11:30
Welcome Opening Comments & Keynote				
Kalbacher	Thomas	UFZ	Overview, Bulletin & Community	12:30
Kolditz	Olaf	UFZ	OGS Strategy & Operations	12:35
Helfer	Thomas	CEA	Keynote	12:50
Code Development & Tools				
Dmitri	Naumov	UFZ	OGS-6 yearly status update	13:20
Lars	Bilke	UFZ	OGS container introduction for users and developers	13:40
Thomas	Fischer	UFZ	OGS-6 HPC development and applications	14:00
Norbert	Grunwald	UFZ	Status and discussion of the process-independent material property library MPL	14:20
Coffee Break				14:40
Johannes	Boog	UFZ	r2ogs: Increasing usability by wrapping OGS into R	15:00
Jörg	Buchwald	UFZ	Python tools for controlling OGS, uncertainty quantification and sensitivity analysis	15:20
THM Models & Methods				
Hua	Shao	BGR	From Benchmarking to Application	15:40
Michael	Pitz	BGR	TH2M coupled processes: Results from the BenVaSim benchmarking project	16:00
Jan	Thiedau	BGR	Quality assurance of scientific software for safety analyses in radioactive waste disposal	16:20
Anas	Alfarra	BGR	Numerical Analysis of a Generic Repository Site in Claystone: Impact of the Variation of model parameters on the Integrity of the Geological Barrier	16:40
Zhang	Ning	NJUST	Thermo-mechanics high-performance computing of salt caverns using OGS-6 on Sunway TaihuLight Cluster	17:00
Florian	Zill	UFZ	OGS-6 in salt mechanics	17:20
Norbert	Grunwald	UFZ	Two-phase thermo-hydromechanics process (TH2M) in OGS6	17:40
Keita	Yoshioka	UFZ	Applications of crack propagation simulation by the variational phase-field	18:00
Dinner at the Ratskeller in the Leipzig City Center				19:00
DAY 2				
Morning Coffee				8:30
Conservative and Reactive Transport Models & Methods				
Xuerui	Wang	LUH	Development of coupled a BCHM model to investigate the MICP behavior in soil	9:00
Renchao	Lu	UFZ	Development of Reactive Transport Modeling on OGS6	9:20
Luca	Urpi	ETH	Unsaturated flow(Richards Flow) coupled to PHREEQC	9:40
H & HT Models & Methods				
Tuong Vi	Tran	LUH	Field study of hydraulic conductivity using different methods for future groundwater modeling issues	10:00
Falko	Vehling	CAU	Simulation of brine migration along geological fault zones	10:20
Victorien	Djotsa	CAU	Modeling induced thermal convection in cases of stationary and cyclic heat storage in homogeneous saturated sand sediment	10:40
Johannes	Nordbeck	CAU	High Temperature ATEs: Efficiency and thermal impact assessment with OGS	11:00
Stefan	Heldt	CAU	Simulation of the thermo-hydraulic processes of a field test for high-temperature aquifer heat storage	11:20
Wanlong	Cai	UFZ	Analysis for Operation Mechanism and Pressure Loss of Deep Borehole Heat Exchanger with Different Boundary Condition	11:40
Chaofan	Chen	UFZ	Connecting deviated and vertical deep boreholes to enhance the extraction of geothermal energy - implementation in the OGS	12:00
Shuang	Chen	UFZ	Comparison of different approaches in designing an array of multiple borehole heat exchangers (BHEs)	12:20
Boyan	Meng	UFZ	Moisture transport in the context of soil borehole thermal energy storage (BTES) systems: Modeling investigations	12:40
End of Presentations				13:00