Detailed Agenda OpenGeoSys Community Meeting (OGS CM 2023)
05-06.12.2023, UFZ Leipzig, VISLAB (Building 7.2)

CET	OpenGeoSys Community Meeting 2023		
05.12.2023	*Tuesday*		
09:00	Technical meetings (individual)		
11:45	*Welcome lunch*		
	OGS overview		
12:30 – 13:00	OpenGeoSys 6.5: An overview of new feature and outlook to 2024	Lars Bilke, Dima Naumov	
13:00 – 13:30	OGSTools: Tools and Workflows (see also Python sessions on 06.12.2023)	Florian Zill, Tobias Meisel, Jörg Buchwald, Christoph Lehmann, Julian Heinze (FEFLOW converter) …	
	User and devs reports		
13:30 – 14:30	TUBAF session: Thomas Nagel – Thomas: Overview of TUBAF activities – Chaofan: Geothermal and fractured systems – Mehran: Material modeling with MFront		
14:30 – 15:30	BGR session: Hua Shao, Jan Thiedau – Jan/Carlos: THM and transport modelling in fractured crystalline rock – Max: OGSUQ.jl: An uncertainty quantification toolbox for OpenGeoSys 6 in the julia language – Eike: A bimodal pore-model for strain-dependent water retention behavior of bentonite – Shuang/Vinay: Numerical investigations into gas transport and gas-induced processes in Opalinus Clay		
15:30 – 15:45	*Coffee / tea break*		
15:45 – 16:15	***VIS session***: Karsten Rink, Nico Graebling, Ozan Sen, Susann Goldstein		
16:15 – 17:15	CAU session: Sebastian Bauer et al. – Johannes Nordbeck: Numerical simulation of a High-Temperature-ATES field test: quantification of induced convection, cycle efficiency and thermal impacts – Jens Olaf Delfs: Numerical simulation of geothermal wells: New model developments and their applications. – Stefan Heldt: Uncertainty assessment of High-Temperature Aquifer Thermal Energy Storage (HT-ATES) thermal impacts and efficiency		
17:15 – 18:45	UFZ / MUL session: – Thomas Kalbacher, Tom Fischer, Afid Nur Kholis: Groundwater modeling – Haibing Shao, Maximilian Dörnbrack, Chaofan Chen et al.: Geothermal energy systems – Tymofiy Gerasimov (UFZ/BGE-TEC): THM analysis of saturated porous medium with phase-change (soil freezing around BHEs and the induced deformation) – Olaf Kolditz, Jörg Buchwald, Christoph Lehmann, Norbert Grunwald, Feliks Kiszkurno, Philipp Selzer, Haibing Shao, Falko Vehling, Wenqing Wang, Florian Zill + OGS Core Team: Deep geological repositories – Keita Yoshioka, Mostafa Mollaali, Tao You et al.: Phase-field session		
19:30 –	*Pizza party*		

06.12.2023	*Wednesday*		
09:00 – 11:00	– Lingxiang Wang (Tongji University): A Darcy-scale numerical model for microbially induced calcite precipitation modeling in heterogeneous porous media – Pavan Kumar Bhukya (IIT Madras): Coupled bio-chemo-hydro-mechanical modeling studies on the MICP treatment for large-scale application in soils – Pouria Behnoudfat, Uli Kelka (CSIRO/BGE): A variationally adaptive-stabilized conforming finite element framework for time-dependent problems – Xuerui Wang (GRS): Numerical Simulation of Radionuclide Migration in fractured Rock" – Tymofiy Gerasimov (BGE-TEC): HM modeling of bentonite (water transport and swelling of bentonite column) – …		
11:00 – 11:15	*Coffee / tea break*		
11:15 – 12:00	***Focus theme: OGS large applications*** e.g.: – Donau groundwater model (H) – FE experiment in DECOVALEX (TRM) – Repository model in EURAD (TH2) – Far-field (clay/salt) in AREHS (THM) – VPF in CD-A (RM) – …	We invite OGS users to provide reports about their significant OGS applications, such as EURAD-GAS, DECOVALEX, and FE-Task. They can share their experiences and suggest improvements.	
12:00 – 13:00	***Focus theme: OGS Python session*** – Current status of OGSTools (see talk on 05.12.) – How to use OGSTools? – How to contribute to OGSTools?	Here, we request that OGS users reporting on their Python tools, impart their insight on employing Python within the OGS framework, and suggest possible inclusions in OGSTools.	
13:00 – 13:30	Discussion on future OGS features and demands		
13:30	*Light lunch and farewell*		
14:00 –	Technical meetings (individual)	Here you may meet for selected topics with the OGS core team you are interested in	

Videoconferencing:
OGS CM 2023 Day 1 (05.12.2023)
https://ufz-de.zoom-x.de/j/3378459256?pwd=UktaTlo1MG1NV2lVYzNLblFjd2h4QT09
OGS CM 2023 Day 2 (06.12.2023)
https://ufz-de.zoom-x.de/j/3378459256?pwd=UktaTlo1MG1NV2lVYzNLblFjd2h4QT09
Kenncode: 603564