

Detailed Agenda OpenGeoSys Community Meeting (OGS CM 2024)
 09-11.09.2024, UFZ Leipzig, VISLAB (Building 7.2)

CET	OpenGeoSys Community Meeting 2024		
09.09.2024	<i>Monday</i>		
10:00	Hackathon	ogs core team	
		https://discourse.opengeosys.org/t/ogs-hackathon-on-9-sep-important-information/1508	
10.09.2024	<i>Tuesday</i>		
12:00	<i>Welcome luncheon</i>		
	OGS overview		
13:00 – 13:15	Hackathon report	Christoph Lehmann	
13:15 – 13:45	OpenGeoSys & OGSTools: An overview of new feature and outlook to 2025 (incl. benchmarking)	ogs core team	
13:45 – 14:00	OWF modelling strategy		
14:30 – 15:00	Groundwater workflows	Thomas Kalbacher & team	
15:00 – 15:30	<i>Coffee/tea break</i>		
	RTP Reactive Transport Processes (Haibing Shao)		
15:30 – 17:00	<ul style="list-style-type: none"> – Xuerui Wang (GRS): Alternative Strategies for Modeling Radionuclide Migration in Crystalline Rock – Shuang Chen (BGR) Studying the reactive transport of CO₂ in Opalinus Clay with experimental and numerical analyses – Philipp Selzer (UFZ): Consistent and Mass-Conservative Semi-Analytical Particle Tracking as a Postprocessing-Tool for OpenGeoSys: A Proof-of-Concept – Pavan Kumar Bhukya (ITT Madras) and Xuerui Wang (GRS): Stability analysis of biocemented slopes using critical state constitutive framework 		
17:00 – 18:00	THM Geomechanics #1 (Thomas Nagel)		
	<ul style="list-style-type: none"> – Mehran Ghasabeh (TUBAF): Extension of the Hoek-Brown Failure Criterion to a Multi-Surface Plasticity Framework with Hydromechanical Process Coupling in OpenGeoSys (OGS) – OWF THM team (Jörg Buchwald, Norbert Grunwald, Wenqing Wang, Florian Zill): Progress report 		
18:00	Hackathon discussion and feedback (how to prepare the next hackathon)		Christoph Lehmann
18:30 –	<i>Pizza party</i>		

11.09.2024	Wednesday		
09:00 – 11:00	THM Geomechanics #2 (Hua Shao)		
	<ul style="list-style-type: none"> – Carlos Guevara Morel (BGR): Evaluating potential fault reactivation at fractures for a generic repository in Crystalline rock – Keita Yoshioka (MUL): Phase-field fracture model update: dynamic fracture, plasticity, etc. – Yuhao Liu (MUL): A phase-field fracture model in thermo-poro-elastic media with micromechanical strain energy degradation – Tymofiy Gerasimov, Eric Simo (BGE-TEC): Progress on TH2M modeling of the HotBENT Nagra experiment using the OGS – María Fernanda Pico Duarte (Charles University, Prague): Modelling geothermal piles in OGS using the coupled-thermo-hydro-mechanical model for clays 		
11:00 – 11:30	<i>Coffee/tea break</i>		
11:30 – 13:30	Geothermal Energy Systems (tbc)		
	<ul style="list-style-type: none"> – Wanlong Cai (Xi'an Jiaotong University) and Yanlong Kong (CAS-IGG): Performance evaluation of deep geothermal heating system for heat extraction and storage purposes – Chaofan Chen (TUBAF): Thermal performance response and heat load redistribution mechanism of a deep U-type borehole heat exchanger in heating systems – Jan Niklas Nordheim (CAU Kiel): An ATEs for the new campus of Kiel University - model setup and first results – Elisa Löschner (CAU Kiel): Estimation of the interactions between borehole heat exchangers in the shallow urban subsurface – Shallow geothermal team (Haibing Shao & team): Progress report 		
13:30 – 14:00	Closure		
	Discussion on future OGS features and demands		
	Hackathons continued		
	OGS-CM-2025		
14:00	<i>Light lunch and farewell</i>		

Videoconferencing:

<https://ufz-de.zoom.us/j/67562461925?pwd=wMgNmh3mm5DEaLk2pvuzKNP6t9DS7b.1>