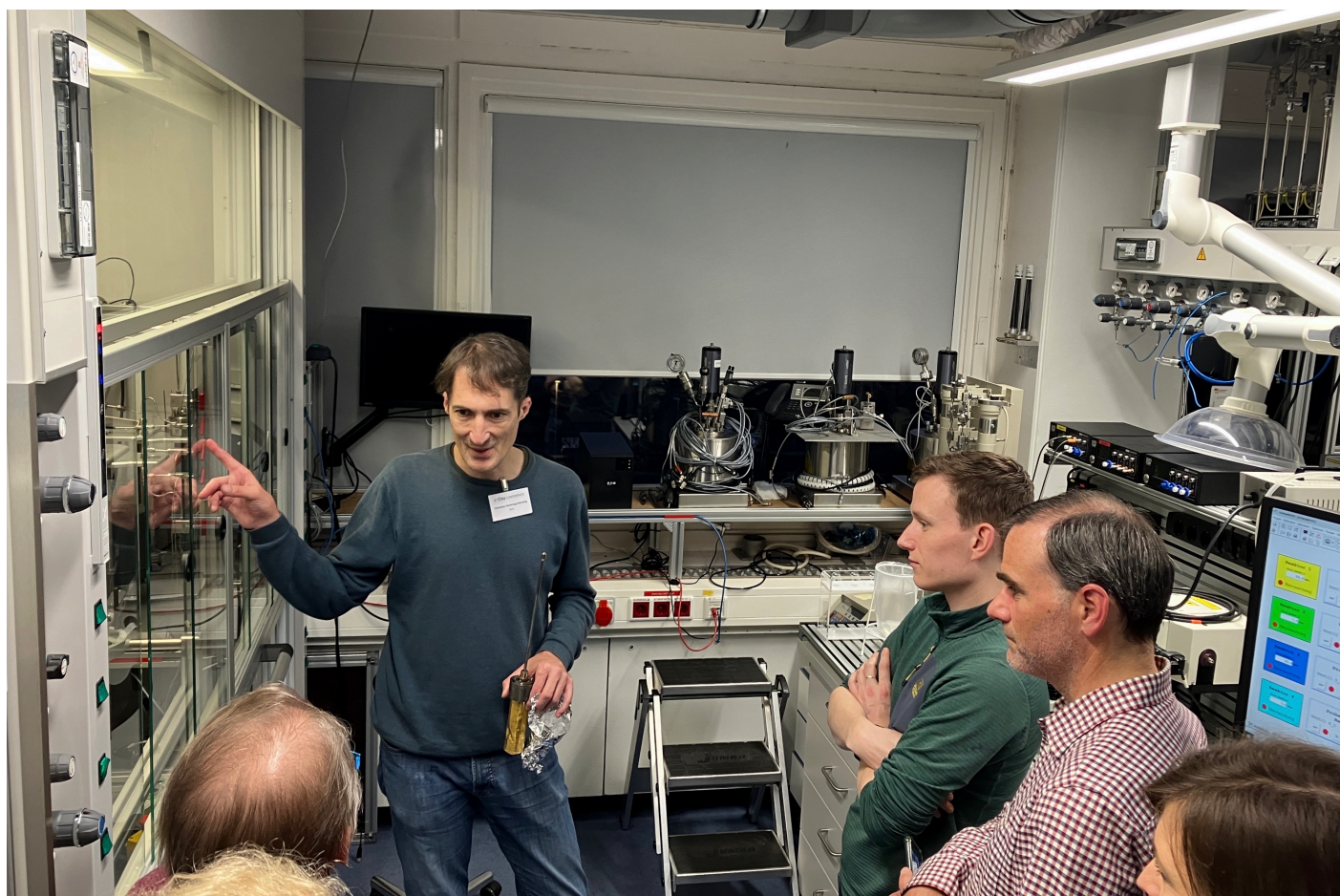
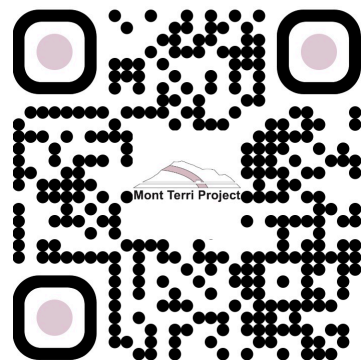


Mont Terri Project Underground Rock Laboratory

Report period: November 25, 2024 – December 1, 2024

Assembled and edited by swisstopo, St-Ursanne



Spotlight of the week: This week the 9th international clay conference took place in Hannover. The event was very well organized and consisted of plenary and parallel sessions of oral presentations, as well as of poster sessions. Three scientists strongly involved in the Mont Terri Project were awarded for their excellent posters and research. In alphabetic order they are Camille Roland from EPFL ("Harnessing microbiological processes consuming hydrogen in radioactive waste repositories"), Rushan Wang from WSL/SLF ("Differentiation of fractures and rock mass deformation in clay rocks by machine learning") and Theresa Henning from GFZ Potsdam ("Neptunium migration in Opalinus Clay – one experiment with multiple numerical geochemical solutions"). Congratulations to their excellent work! On Thursday afternoon the participants had the opportunity to visit the laboratories of BGR. The image shows the laboratory of organic chemistry, which was presented by C. Ostertag-Henning (photo: D. Jaeggi, swisstopo).

DR-E (Long-Term Diffusion Experiment in the Main Fault-Zone) experiment

- On Thursday, November 28, S. Schefer (swisstopo) took samples #8 from both boreholes and sent samples #1-8 to PSI for analysis.

GT (Gas Transport Models and the Behavior of OPA to Gas Pressure) experiment

- On Wednesday, November 27, J. Gisiger (Solexperts) replaced the seals of the injection pump. Current constant head pressure is 20 bar in interval 2 of BGT-2.

MH (Long-Term Monitoring of Heaves and Displacement) experiment

- From Monday to Friday, November 25–29, S. Condamine, A. Bart, F. Züger, and S. Klein (swisstopo) carried out the precision leveling to monitor height changes in the rock laboratory. In addition, leveling was performed in the area of the tiltmeters in Gallery 18, and the meteorological loggers were read out in the Security Gallery (**Figure 1**).

SW-A (Large-Scale Sandwich Seal in Opalinus Clay) experiment

- On Monday, November 25, T. Theurillat (swisstopo) refilled the HPT of shaft 1.

Varia

- On Wednesday, November 27, there was a short power outage in the office building due to the final connection of the PV installation to the local power grid. We now provide renewable electricity from the rooftop of the core storage facility.
- On Tuesday, Thursday and Friday, another 72 pallets were delivered from Hochdorf by trucks from the Swiss army (**Figure 2**).

Visits

Day	Date	Group Name	Group Size	Visitors Guide
Wed	27.11.2024	Kdo Cyber	9	R. Nicol (swisstopo)
Thu	28.11.2024	Police Cantonale JU	10	J.-P. Meusy (freelance)

Figures



Figure 1: MH: Measuring in the dark with illuminated tools makes for a perfect picture... (S. Condamin, swisstopo).



Figure 2: Varia: The storage room is full after unloading two trucks and the pallets are waiting to be stored (S. Schefer, swisstopo).