Mont Terri Rock Laboratory

Field report: May 31-June 6, 2021 (Phase 26)

BN (Bitumen-Nitrate-Clay Interaction) experiment
- On Wednesday, T. Theurillat (swisstopo) took the last sample cylinder from interval 3.

DR-D (Heterogeneity of Sandy Facies by Geophysical characterization and Diffusion Studies) experiment
- On Wednesday, L. Schwab (Solexperts) finished the resin injection into the annulus of BDR-D2.

FE-G (Monitoring the Gas Composition within the FE-Experiment) experiment
- On Tuesday, Y. Lettry (Solexperts) was on site for maintenance work.

FE-M (Long-Term Monitoring of the Full-Scale Emplacement) experiment
- On Monday, M. Felder and S. Schefer removed the seismic probes from GT-1 and GT-2.
- On Tuesday, E. Manukyan (Nagra) was on site to supervise the measurements of J. Erdmann and A. Mazurkiewicz (Terra). They performed GPR measurements inside GT-1 and GT-2.
- Wednesday and Thursday, L. Schwab (Solexperts) performed the yearly maintenance works.
- On Thursday, S. Schefer performed a camera inspection inside GT-1 and GT-2 as a preparation of the active logging.
- On Saturday, the active logging took place. E. Manukyan (Nagra) supervised the work of A. Fischer and S. Kümmel (BLM). They performed neutron and gamma logging inside GT-1 and GT-2 (Figure 1). S. Schefer (swisstopo) was on site for the safety measures.

MH (Long-Term Monitoring of Displacements) experiment
- From Monday to Friday, P. Mahler, A. Weller and HP. Mesmer (FHNW) measured the precise positions of the fix points inside the rock lab and the safety gallery (Figure 2). They finished the work that was started by the students of FHNW some weeks ago.

SW-A (Large-Scale Sandwich Seal in Opalinus Clay) experiment
- On Thursday, the gas injection pressure was increased to 2.5 bars, which amounts to a pressure of 3.7 bar in the pressure chamber. In order to have a better control on the effective set gas pressure, another digital pressure transducer was mount on the vent port of the flange and connected to an autonomous Geomonitor by D. Jaeggi and V. Regard (swisstopo).
- On Thursday, L. Schwab (Solexperts) with the help of S. Schefer, reconnected the pressure sensor in the pressure chamber onto another board and tried to stop the water leakage along the cable of pressure transducer S1_PC01_PP_1. Unfortunately, without success, so the sensor was disconnected on Friday and will be reconnected after installation of compression fittings.
Varia

- On Wednesday, June 9, there will be a power outage in the afternoon. This only concerns the office building and not the rock lab. The servers of the DAS will be shut down during this time.

Visits

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D. Jaeggi and S. Schefer, June 6, 2021

Figure 1: FE-M: S. Kümmel during the dummy run inside GT-1 (Photo: S. Schefer, swisstopo).
Figure 2: MH: Collaborators of FHNW in Ga98 during geodetic measurements (Photo: M. Felder, swisstopo).