

Workshop Geo-energies SCCER-Soe

June 5th, 2018

École Polytechnique Fédérale de Lausanne, room BM 5202



SWISS COMPETENCE CENTER for ENERGY RESEARCH
SUPPLY of ELECTRICITY



ÉCOLE POLYTECHNIQUE
FÉDÉRALE DE LAUSANNE

Program

	9h30 - 10h00	Welcome Coffee
1	10h00	Introduction by Lyesse Laloui SCCER-SoE WP1 leader
2	10h10	<u>GUIDATI Gianfranco</u> (SCCER-SoE manager) Scenarios for a low-CO ₂ Swiss energy system – the role of geoenergy
3	10h25	<u>MINARDI Alberto</u> (EPFL-LMS) CO ₂ injection experiment in shale caprock
4	10h40	<u>GREENWOOD Andrew</u> (UNIL) Fracture characterisation from hydrophone VSP data.
5	10h55	<u>CIARDO Federico</u> (EPFL-GEL) Effect of fault/joint dilatancy on the nucleation of dynamic rupture induced by fluid injection.
6	11h10	<u>CASPARI Eva</u> (UNIL) Characterization of fractures in the damage zone of a shear fault with geophysical borehole methods.
7	11h25	<u>KAKURINA Maria</u> (UniNe -CHYN) How does the 3D displacement data during a fault reactivation experiment can improve the estimation of the in-situ stress.
8	11h40	<u>FRYER Barnaby</u> (EPFL-LMS) Depletion-induced permeability loss and its effect on induced seismicity
	12h00 - 14h00	Lunch break
9	14h00	<u>MINDEL Julian</u> (ETH Zurich) Developing a TH(M)C Simulation tool: Challenges & Progress
10	14h15	<u>BARBOSA Nicolas</u> (UNIL) Estimation of fracture compliance from seismic attenuation and velocity analysis of full-waveform sonic log data.
11	14h30	<u>DAHRABOU Asmae</u> (UniNe -CHYN) Workflow for managing deep deviated geothermal well stability.
12	14h45	<u>ZIA Haseeb</u> (EPFL-GEL) PyFrac : an open-source simulator for the growth of mode I Planar 3D hydraulic fractures.

13	15h00	<u>DUTLER Nathan</u> (UniNe) Observations of fracture propagation during decameter-scale hydraulic fracturing experiments
14	15h15	<u>BLUM Thomas</u> (EPFL-GEL) A Polyaxial rig for hydraulic stimulation at the lab scale with extensive acoustic monitoring.
15	15h30	<u>VILLIGER Linus</u> (ETH Zurich - SED) Seismicity and Deformation observed during decameter-scale hydraulic shearing experiments
16	15h45	<u>PATTERSON James</u> (ETH Zurich) Modeling flow paths in fractures, macro and micro: THM simulations and variational transfer between unstructured grids
	16h00	End of the workshop

How to reach EPFL and workshop room

By public transportation

- from the Lausanne train station, take the metro line **M2** in direction *Croisettes* and get off at the stop *Lausanne-Flon*;
- take the metro line **M1** in direction *Renens* and get off at the stop *EPFL*;
- see the map below to reach the workshop room (BM 5202) from EPFL metro station.

