Thursday, 13 September 2018

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9:00	Registration and coffee								
10:00	Session 1: SCCER-SoE Overview Presentations followed by poster pitches Chair: Ueli Wieland, SCCER-SoE 10:00 Welcome 10:10 SCCER-SoE moving forward (Domenico Giardini, ETHZ) 10:20 Highlights of the geo-energy activities (Lyesse Laloui, EPFL) 10:45 Research and innovation in the hydropower domain (Robert Boes, ETHZ) 11:10 Innovation Agenda (Cécile Münch-Alligné, HES-SO and Rolf Krause, USI) 11:35 Future supply of electricity - highlights, impacts and outlook (Peter Burgherr, PSI)								
12:00	Lunch and poster session								
12:00 14:00	Potentia Chair: Ro The talks or Frence	2a: Meeting with industry – New lakes in the Alps after glacier retreat: al and challenges obert Boes, ETHZ s of this session will be held in German h and will simultaneously be translated other language. Recherche et innovation dans les infrastructures hydroélectriques périglaciaires (Pedro Manso, EPFL) Einfluss des Klimawandels auf die Wasserkraftproduktion: Wie ist es in den Wintermonaten? (Manfred Stähli, WSL) Gletscherbett- und Eisdickenbestimmung in den Schweizer Alpen (Melchior Grab, ETHZ) Einfluss des Klimawandels auf die Stauraumverlandung in vergletscherten Einzugsgebieten (Daniel Ehrbar, ETHZ) Wasserkraftpotenzial in den vergletscherten Schweizer Alpen (Robert Boes, ETHZ) Coffee and poster session Rückzug des Triftgletschers - Chance für einen neuen Speichersee (Benno Schwegler, KWO) Le projet "Oberaletsch" (Gaël Micoulet, Alpiq)	Session 2b: Meeting with industry – Innovation in geothermal energy projects Chair: Lyesse Laloui, EPFL Agenda will follow.	future s	The Nov. 2017 Pohang (South Korea) earthquake of magnitude 5.5: An anthropogenic event with implications for Switzerland? (Stefan Wiemer, ETHZ) Key factors of future wholesale electricity prices in Switzerland (Martin Densing, PSI) European policy scenarios of relevance for the Swiss energy transition (tbd) Swiss electricity mix 2035: bridging energy modelling and public references (Evelina Trutnevyte, UniGe) Scenarios for the Swiss energy system 2050 (Gianfranco Guidati, SCCER-SoE) First results from the "Joint activity integrated development processes" (Olivier Ejderyan, ETHZ) Coffee and poster session Are hydraulic pressure vessels subject to fatigue and crack propagation? (Samuel Rey-Mermet, HES-SO) Recent advances in numerical predictions for off-design conditions				
	16:45	Discussion: Further examples are welcome. Please send your suggestions to Ueli Wieland.		16:30 16:45	in hydraulic turbomachines? (David Roos-Launchbury, HSLU) Towards multi-scale numerical simulations of Pelton turbine hydraulic abrasion (Sebastián Leguizamon, EPFL) Multi-physics and multi-scale simulations for hydropower and geo-energy (Patrick Zulian, USI)				

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8:00	Registrat	tion and coffee							
9:00	Session 3a: Hydropower Chair: Robert Boes, ETHZ		Session 3b: Geo-energy Chair: Lyesse Laloui, EPFL						
	9:00	The worldwide hydropower potential of periglacial environments (Vanessa Round, WSL and Daniel Farinotti, WSL)	9:00	Characterizaition of fractured rocks based on seismic measurements and geophysical borehole logs (Klaus Holliger, UNIL)					
	9:15	Measuring and modeling subglacial sediment transport in the Swiss Alps (Ian Delaney, ETHZ)	9:15	Numerical models for the design of hydraulic stimulation (Brice Lecampion, EPFL)					
	9:30	Orifices as throttle for surge tank adaptations during a refurbishment by increase of installed capacity (Nicolas Adam, EPFL) Bottom outlet hydraulics (Benjamin Hohermuth, ETHZ)		SCCER international collaboration - the example of supercritical geothermal resources in Iceland (Thomas Driesner, ETHZ)					
	9:45			Mechanical response of Opalinus clay during CO ₂ injection (Alberto Minardi, EPFL)					
	10:00	Venting of turbidity currents against reservoir sedimentation	10:00	Thermo-hydraulic well testing for characterization and					
	10.15	(Sabine Chamoun, EPFL) Linking biological and hydro-morphological river characteristics as means to assess and mitigate impacts on hydropower operation (Severin Stähly, EPFL)		management of heat storage projects (Reza Sohrabi, UniNE and Benoît Valley, UniNE)					
	10:15			Reservoir stimulation's effect on depletion-induced seismicity (Barnaby Fryer, EPFL)					
	10:30	Coffee and poster session	10:30	Coffee and poster session					
	11:00	Riverbed and surface composition adjustments in a gravel-bed river subject to repeated sediment bypass tunnel operations (Annunziato Siviglia, ETHZ)	11:00	How does 3D displacement data from a fault reactivation experiment improve the estimation of the in-situ stress? (Maria Kakurina, UniNE)					
	11:15	Small-scale hydropower plants in Alpine streams - studying ecological effects across different scales	11:15	On the anisotropy of mechanical properties in Grimsel granite (Nejati Morteza, ETHZ)					
	44.00	(Christine Weber, Eawag)		Fracture growth and comparison to analytical solution for an					
	11:30	Multiobjective optimal operation of Alpine hydropower systems (Daniela Anghileri, ETHZ)		in-situ hydraulic fracturing experiment (Nathan Dutler, UniNE) Complex interplay between hydraulic shearing and hydraulic					
	11:45	Simulation of high-resolution gridded climate variables for present and future climates (Nadav Peleg, ETHZ)	11:45	fracturing observed during in-situ stimulations (Hannes Krietsch, ETHZ)					
12:00	Lunch ar	and poster session							
14:00	Session 4: Demonstrators Chair: Ernesto Casartelli, HSLU								
	14:00	4:00 Poster award							
	14:10	Grimsel In-situ Stimulation Project: What we can learn from scaled experiments (Joseph Doetsch, ETHZ) Bedretto Deep Underground Lab: Status of the implementation and planned experiments (Marian Hertrich, ETHZ)							
	14:35	Reservoir engineering for a heat exchanger in Haute Sorne (tbd)							
	14:45	Exploration of the Geneva Basin for geothermal resources: An integrated approach with classical and unconventional methods (Matteo Lupi, UniGe)							
	15:00	CO ₂ sequestration: Progress in the ELEGANCY-ACT project (Alba Zappone, ETHZ)							
	15:15	5 SmallFlex: Demonstrator for flexible small hydropower plants (Cécile Münch-Alligné, HES-SO)							
	15:30	SEDMIX - using a stirring device for controlled release of fine sediments from storage reservoirs (Azin Amini, EPFL)							
	15:45	15:45 Operation of a complex Alpine hydropower scheme across four decades: Inferring behaviour patterns through data science (José Pedro Matos, Stucki SA and EPFL)							
16:00	Closure	Closure (Domenico Giardini, ETHZ)							