

Tuesday, October 13

10:00	Welcome and coffee
	Welcome session
10:30	Opening addresses François Avellan (deputy head SCCER-SoE)
10:35	Keynote on "KWO Activities" Benno Schwegler (head project development)
11:00	Keynote on "The Energy Strategy 2050 and challenges for hydropower and geothermal sectors" Christian Bühlmann (Swiss Federal Office for Energy, stv. Leiter Energieversorgung und Monitoring)
11:30	Keynote on "Challenges, environment and organisation" Ueli Wieland (manager of the SCCER-SoE)
12:15	Lunch break
	Session 1 – Introduction to Geothermal Resources and Geothermal Research Problems Chair: T. Driesner
13:30	Types of Geothermal Resources, Power Production, and Research Problems Thomas Driesner
14:30	Lessons learned from previous Enhanced Geothermal Systems Projects Speaker to be announced
15:00	Research on Hydraulic Stimulation at the Grimsel Underground Laboratory Florian Amann Discussion
15:30	Coffee break
	Session 2 – Hydropower Chair: F. Avellan
16:00	Adaptation of Swiss hydropower infrastructure to meet future needs Pedro Manso (EPFL-LCH)
16:45	La stratégie énergétique 2050 et l'implémentation de la Loi de Protection des Eaux Judith Money-Ueberl (Canton de Berne)
17:15	Hydropower machinery: development & perspectives François Avellan (EPFL-LMH) Discussion
18:30	Ice breaker
19:30	Dinner

Wednesday, October 14

Hydropower		Geo-Energies	
	Session 3 – Tasks 2.1 & 2.5 Chair: M. Stähli		Session 3 – Tasks 1.1 Chair: T. Driesner
8:00	Future water and sediment from glaciers and alpine areas: perspectives for HP Daniel Farinotti & Manfred Staehli (WSL)	8:00	Geothermal Resources in the Swiss underground - fundamental concepts and exploration strategies Martin Saar (ETHZ EGG) and Andrea Moscariello (UniGe)
9:15	Design of hydropower system operation: challenges and methods Daniela Anghileri (ETHZ-IfU)		
10:15	Coffee break	10:00	Coffee break
	Session 4 – Tasks 2.4 & 2.3 Chair: P. Manso		Geothermal Resources in the Swiss underground - fundamental concepts and exploration strategies Martin Saar (ETHZ EGG) and Andrea Moscariello (UniGe)
10:45	Selecting sites for small hydropower – trade-offs between power production and stream ecology Christine Weber & Martin Schmid (Eawag)	10:30	
11:45	Reservoir sedimentation and sustainability of hydropower Anton Schleiss (EPFL-LCH)		
12:15	Sustainable reservoir operation using sediment bypass tunnels Robert Boes (ETHZ-VAW)		
12:30	Reducing hydro-abrasive wear at turbines João Fernandes (ETHZ-VAW)		
12:45	Lunch break	12:30	Lunch break
	Session 5 – Task 3.2 Chair: V. Hasmatuchi		Session 4 – Task 1.2 Chair: T. Driesner
13:45	Small Hydro : State of the art and performance measurements Vlad Hasmatuchi (HES SO Valais)	13:30	Coupled thermo-hydro-mechanical processes in geothermal systems Part 1 Lecture Thomas Driesner (ETHZ IGP) et al.
14:15	Sustainable exploitation of small hydro Loïc Andolfatto (EPFL LMH)		
14:45	HPP performance and flexible operation towards lean integration of new renewable energies Andres Müller (EPFL LMH)		
15:15	Numerical Simulation of cavitation in turbomachines Jean Decaix (HES SO Valais)		
15:45	Coffee break	14:50	Coffee break

	<p>Session 6 – Tasks 2.3 & 2.2 (Chair: To be announced)</p>	15:10	<p>Coupled thermo-hydro-mechanical processes in geothermal systems Part 2 Practicals Thomas Driesner (ETHZ IGP)</p>
16:15	<p>Dam safety in Switzerland considering natural hazards like floods and earthquakes G. Darbre (SFOE)</p>		
17:15	<p>Impact of market conditions on the short- & long-term operation of HPPs, Future operation strategies of HP systems Hannes Weigt (UniBasel)</p>		
18:30	Dinner		

Thursday, October 15

Hydropower		Geo-Energies	
	Session 7 – Tasks 2.1 & 2.3 Chair: B. Schaefli		Session 5 – Task 4.1 Chair: T. Driesner
8:00	Local climate scenarios via stochastic downscaling techniques Nadav Peleg (ETHZ-IfU)	8:00	Induced seismicity during hydraulic stimulation of geothermal reservoirs Lecture and practicals Dimitrios Karvounis (Swiss Seismological Service)
8:30	Renewable energy sources: current and future challenges as seen from a trading standpoint Martin Bolliger (Alpiq)		
9:00	Hydropeaking mitigation Philipp Meier (Eawag)		
9:15	On the economical and the ecological efficiency of SHPP Stefania Tron (EPFL-AHEAD)		
9:30	Dam and reservoir level heightening Pedro Manso (EPFL-LCH)		
9:45	Risk assessment of impulse waves in reservoirs Lukas Schmocker (ETHZ-VAW)		
10:00	Coffee break	10:00	Coffee break
10:30	Fish downstream migration tbc	10:30	The EGS project at Haute Sorne, canton Jura P. Meier (Geo-Energie Suisse)
10:45	Fine sediment management in Alpine reservoirs J. Jenzer-Althaus (IUB)		
11:05	Hongrin-Leman PSP repowering with optimal usage of existing waterways and surge shafts C. Nicolet (Powervision)		
11:50	Pump-turbines for Nant de Drance and Linthal projects A. Schwery (Alstom R&D)		
12:15	Lunch break		
	Session 8 – Tasks 4.1 & 4.2 Chair: P. Burgherr		
13:15	Comparative Risk Assessment in the Energy Sector: Safe, Secure and Sustainable Energy Supply Peter Burgherr (PSI)		
14:05	Social Acceptance and Risk Governance Michael Stauffacher (ETHZ USYS)		
14:55	Environmental Impacts of Energy Technologies Chris Mutel (PSI)		
15:45	Coffee break		

16:15	Scenario Analysis in Energy Economic Modeling Kannan Ramachandran (PSI)
17:05	Integrated Sustainability Assessment Peter Burgherr (PSI)
18:30	Dinner

Friday, October 16

Hydropower		Geo-Energies	
Excursions Chair: U. Wieland			
7:45	Power house and dam of Grimsel 2	7:45	NAGRA Grimsel test site
10:15	Exchange of the groups / sites		
10:15	NAGRA Grimsel test site	10:15	Power house and dam of Grimsel 2
12:30	Packed lunch		
13:00	Departure of the bus to Innertkirchen		