

PhD Summer School Mont-Soleil

12th - 16th/17th August 2019

Field-Based Insights into the Implementation of Renewable Energies

PROGRAM

Main conference

Monday 12.08 Climate and Environmental Physics

13:00	Check-in at University of Bern, Climate and Environmental Physics
14:00	Introduction
	Dr. Martin Pfisterer, Co-chairman / President Société Mont-Soleil, Switzerland
	Prof. hon. Alfred Rufer, Co-chairman / EPFL, Lausanne, Switzerland
14:30	Climate Change and the 1.5°C Goal of the Paris Agreement
	Prof. Thomas Stocker, University of Bern, Switzerland
16:00	Visit to the Laboratories of Climate and Environmental Physics
17:30	Departure to Mont-Soleil
18:30	Hotel check-in, Auberge de l'Assesseur Mont-Soleil
19:30	Welcome dinner by the city of Saint-Imier

Tuesday 13.08 Photovoltaics and Hydropower

08:00	Opening, Energy Region Mont-Soleii
	Prof. hon. Alfred Rufer, Co-chairman / EPFL, Lausanne, Switzerland
	Dr. Martin Pfisterer, Co-chairman / President Société Mont-Soleil, Switzerland
08:30	Mont-Soleil PV Plant – Layout, Long-term Measurements, Life Cycle Analysis
	Dr. Rudolf Minder and Dr. Jakob Vollenweider, Société Mont-Soleil, Switzerland
	Manuel Lanz and Thomas Schott, Bern Univ. Applied Sciences, Burgdorf, Switzerland
10:00	Mont-Soleil PV Plant – Visit and Exercises
	Dr. Rudolf Minder and Dr. Jakob Vollenweider, Société Mont-Soleil, Switzerland
	Manuel Lanz and Thomas Schott, Bern Univ. Applied Sciences, Burgdorf, Switzerland
11:15	PlanetSolar, the First around the World Tour with a Solar Boat
	Christian Ochsenbein, technical engineer and member of the boat crew
12:00	Lunch
13:00	Design of High Efficiency Solar Cells
	Dr. Mathieu Boccard, CSEM / EPFL, Neuchâtel, Switzerland
14:30	Strategies for Hydropower Deployment
	Martin Bölli, Swiss Small Hydro Association, Switzerland
15:30	Excursion and visit to a hydropower plant at the Doubs river, countrystyle dinner
	Cédric Zbinden, CEO La Goule SA, Saint-Imier
20:00	Return to the hotel

Wed. 14.08	B Wind Energy
08:0	JUVENT Wind Power Plant, Landscape Challenges
09:3	Dr. Martin Pfisterer, Co-chairman / founding President of JUVENT SA, Switzerland Return to Mont-Soleil
10:0	
10.0	Dr. Jakob Vollenweider, former general manager of JUVENT SA, Switzerland
11:0	
	Sara Koller, Meteotest, Bern, Switzerland
12:00	D Lunch
13:0	
44.0	Dr. Jiannong Fang, Wind Engineering and Renewable Energy Lab, EPFL, Switzerland
14:3	
	Repowering Dr. Jakob Vollenweider, former general manager of HUVENT SA. Switzerland
15:30	Dr. Jakob Vollenweider, former general manager of JUVENT SA, Switzerland Visit to JUVENT windfarm
18:0	
10.0	Neturn to the note.
Thurs. 15.0	8 Electrical Grid Integration and Energy Storage
08:0	O Introduction
	Prof. hon. Alfred Rufer, Co-chairman / EPFL, Lausanne, Switzerland
08:1	5 Planning and Control of Active Power Networks
	Prof. Mario Paolone, Distributed Electric Systems Lab, EPFL, Lausanne, Switzerland
10:3	•
40.0	Prof. Drazen Dujic, Power Electronics Laboratory, EPFL, Lausanne, Switzerland
12:30	
13:3	Power Quality in Distribution Grids Related to RES and Power Electronics Prof. Michael Höckel, Power Systems Lab, Biel/Bienne, Switzerland
15:0	• • • • • • • • • • • • • • • • • • • •
13.0	Prof. hon. Alfred Rufer, Co-chairman / EPFL, Lausanne, Switzerland
16:0	
	Consumption
	Prof. Stefano Carrino, HE-Arc, Saint-Imier, Switzerland
17:00	Departure to Saint-Imier
17:3	D Energy Autonomous Concept for Cheese Making
	Cédric Spielhofer, CEO Fromageries Spielhofer, Saint-Imier, Switzerland
18:30	
20:00	Return to the hotel
Friday 16.0	8 Energy Storage and Closing Ceremony
07:4	5 Transfer to Biel/Bienne
09:0	•
	Prof. hon. Alfred Rufer, Co-chairman / EPFL, Lausanne, Switzerland
10:3	Battery Modeling with Application to High Energy Density Systems
	Dr. Andreas Hutter, PV-Center, CSEM, Neuchâtel, Switzerland
11:3	, ,
	Prof. Andrea Vezzini, Bern University of Applied Sciences, Biel/Bienne, Switzerland
12:30	, 5
	Visit to the BFH-CSEM Energy Storage Research Laboratories
14:3	g ,
	End of summer school

Post conference (optional)

riday 16.08	Transfer to Grindelwald / glacier retreat and district heating
15:00	Departure to Grindelwald (Grund)
17:00	Glacier Retreat, District Heating, Plant Visit (with aperitif)
	Dr. Martin Pfisterer, Co-chairman / founding President Holzwärme Grindelwald AG
18:00	Hotel check-in, Jungfrau tourist info, alpine dinner

Saturday 17.08 High Altitude Research Station Jungfraujoch 3500 m a.s.l.

08:00	Departure from Grindelwald (Grund) to Jungfraujoch
09:30	High Altitude Research Station
	Prof. Markus Leuenberger, Director, University of Berne, Switzerland
	Visit to the High Altitude Research Lab
12:00	End of post-conference program

Administration

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