



Hydraulic Machinery Engineering 2019 Short Course Time Schedule

Week 36	Monday 02.09.2019	Tuesday 03.09.2019	Wednesday 04.09.2019	Thursday 05.09.2019	Friday 06.09.2019
07:30	Visits				
08:00	Introduction to Hydraulic Turbomachines F. AVELLAN (EPFL-LMH)	Pelton Turbines Engineering N. GERVAIS (ANDRITZ HYDRO)	Hydraulic Turbine Engineering Design F. MAZZOUJI (GE HYDRO FRANCE)	Hydraulic Turbine Engineering CFD Analysis A. BOMBENGER (GE HYDRO FRANCE)	
08:15					
08:30					
08:45					
09:15					
10:15	Coffee Break (30 min)	Coffee Break (30 min)	Coffee Break (30 min)	Bieudron Power Plant 	
10:45	Cavitation in Hydraulic Machines J. NECKER (VOITH HYDRO)	Hydro Energy Market M. MURET (City Works of Lausanne)	Hydraulic Turbine Engineering Dynamic Phenomena F. DUPARCHY (GE HYDRO FRANCE)		
12:45	Lunch				
13:00	Lunch				
13:30	Model Testing & On Site Measurements A. MÜLLER (EPFL-LMH)	Pump Design & Selection Criteria S. BERTEN (SULZER PUMPS)	Transient Phenomena In Hydroelectric Power Plant C. NICOLET (POWER VISION)	Grande Dixence Dam 	
15:15	Break				
15:30	Model Tests & Cavitation Tunnel Demonstration (EPFL-LMH)	Numerical Simulations C.MÜNCH (HES-SO) & Doctoral Students (EPFL-LMH)	Variable Speed Pumped Storage and Electric Power Systems C. MOREIRA (INESCTEC)	Conclusion End of the Short Course	
17:15	Welcome Party				
19:00	Dinner				

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