



Hydraulic Machinery Engineering 2024 Short Course Time Schedule

Week 36	Monday 02.09.2024	Tuesday 03.09.2024	Wednesday 04.09.2024	Thursday 05.09.2024	Friday 06.09.2024
07:30				Departure Visits	
08:00 08:15	Participants welcome			 Bieudron Power Plant	Hydraulic Turbine Engineering CFD Analysis
08:30	Introduction to Hydraulic Turbomachines F. AVELLAN EPFL PTMH	Pelton Turbine Engineering	Hydraulic Turbine Engineering Design		
09:15	Cavitation M. FARHAT EPFL STI SCI MF	N. GERVAIS ANDRITZ HYDRO	Y. LAURANT GE HYDRO FR		C. SEGOUFIN GE HYDRO FR
10:15	Coffee Break (30 min)	Coffee Break (30 min)	Coffee Break (30 min)		Coffee Break (30 min)
10:45	Cavitation in Hydraulic Machines A. JUNG VOITH HYDRO	Advanced measuring and Signal process. Techniques (PIV, LDV, Pres., Wall Friction...) M. FAHRAT & Phd Students EPFL SCI STI MF	Hydraulic Turbine Engineering Dynamic Phenomena F. DUPARCHY GE HYDRO FR	 Grande Dixence Dam	Hydro Energy Market M. MURET CITY WORKS OF LAUSANNE
12:45 13:30	Lunch (45 min)	Lunch (45 min)	Lunch (45 min)		Lunch (45 min)
13:30	Model Testing & On Site Measurements M. SUAREZ EPFL PTMH	Pump Design & Selection Criteria S. BERTEN SULZER PUMPS	Transient Phenomena In Hydroelectric Power Plant C. NICOLET POWER VISION		Conclusion
15:00	Break (30 min)	Break (30 min)	Break (30 min)		End of the Short Course
15:30	Model Tests and Cavitation Tunnel Demonstrations EPFL PTMH EPFL SCI STI MF	R&D with Numerical Simulations for Hydraulic Machines C.MÜNCH & colleagues (HES-SO)	Variable Speed Pumped Storage and Electric Power Systems C. MOREIRA INESCTEC		
17:15	Welcome Party				
19:00				Dinner	