

Hydraulic Machinery Engineering 2023 Short Course Time Schedule

Week 36	Monday 04.09.2023	Tuesday 05.09.2023	Wednesday 06.09.2023	Thursday 07.09.2023	Friday 08.09.2023
07:30				Visits	
08:00	Introduction to Hydraulic Turbomachines F. AVELLAN EPFL PTMH	Pelton Turbines Engineering N. GERVAIS ANDRITZ HYDRO	Hydraulic Turbine Engineering Design Y. LAURANT GE HYDRO FRANCE	 Bieudron Power Plant	Hydraulic Turbine Engineering CFD Analysis A. BOMBENGER GE HYDRO FRANCE
08:15					
08:30	Cavitation M. FARHAT EPFL STI SCI MF	Coffee Break (30 min)	Coffee Break (30 min)		Coffee Break (30 min)
08:45					
09:00					
09:15					
09:30					
09:45					
10:00					
10:15	Coffee Break (30 min)	Coffee Break (30 min)	Coffee Break (30 min)		Coffee Break (30 min)
10:30					
10:45	Cavitation in Hydraulic Machines A. JUNG VOITH HYDRO	Hydro Energy Market M. MURET CITY WORKS OF LAUSANNE	Hydraulic Turbine Engineering Dynamic Phenomena F. DUPARCHY GE HYDRO FRANCE	 Grande Dixence Dam	Advanced measuring and Signal process. Techniques (PIV, LDV, Pres., Wall Friction...) M. FAHRAT & Phd Students EPFL SCI STI MF
11:00					
11:15					
11:30					
11:45					
12:00					
12:15					
12:30					
12:45					
13:00	Lunch (45 min)	Lunch (45 min)	Lunch (45 min)		Lunch (45 min)
13:15					
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
13:45					
14:00					End of the Short Course
14:15					
14:30					
15:00					
15:15	Break (30 min)	Break (30 min)	Break (30 min)		
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		
15:45					
16:00					
16:15					
16:30					
16:45					
17:00					
17:15	Welcome Party				
19:00				Dinner	

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