

# 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	<b>Participants welcome</b>				<b>Hydraulic Turbine Engineering CFD Analysis</b>
08:30 09:15	<b>Introduction to Hydraulic Turbomachines</b>  F. AVELLAN EPFL PTMH	<b>Pelton Turbine Engineering</b>	<b>Hydraulic Turbine Engineering Design</b>		
09:15 10:15	<b>Cavitation</b>  M. FARHAT EPFL STI SCI MF	N. GERVAIS ANDRITZ HYDRO	Y. LAURANT GE HYDRO FR		
10:15 10:45	<b>Coffee Break (30 min)</b>	<b>Coffee Break (30 min)</b>	<b>Coffee Break (30 min)</b>		<b>Coffee Break (30 min)</b>
10:45 12:45	<b>Cavitation in Hydraulic Machines</b>  A. JUNG VOITH HYDRO	<b>Hydro Energy Market</b>  M. MURET CITY WORKS OF LAUSANNE	<b>Hydraulic Turbine Engineering Dynamic Phenomena</b>  F. DUPARCHY GE HYDRO FR		<b>Advanced Fluid-Structure Interaction in Hydraulic Machines</b>  M. FAHRAT & Phd Students EPFL SCI STI MF
12:45 13:30	<b>Lunch (45 min)</b>	<b>Lunch (45 min)</b>	<b>Lunch (45 min)</b>		<b>Lunch (45 min)</b>
13:30 15:00	<b>Model Testing &amp; On Site Measurements</b>  M. SUAREZ EPFL PTMH	<b>Pump Design &amp; Selection Criteria</b>  S. BERTEN SULZER PUMPS	<b>Transient Phenomena In Hydroelectric Power Plant</b>  C. NICOLET POWER VISION		<b>Conclusion</b>
15:00 17:15	<b>Model Tests and Cavitation Tunnel Demonstrations</b>  EPFL PTMH EPFL SCI STI MF	<b>R&amp;D with Numerical Simulations for Hydraulic Machines</b>  C.MÜNCH & colleagues (HES-SO)	<b>Variable Speed Pumped Storage and Electric Power Systems</b>  C. MOREIRA INESCTEC		<b>End of the Short Course</b>
15:00	Break (30 min)	Break (30 min)	Break (30 min)		
17:15	<b>Welcome Party</b>				
19:00				<b>Dinner</b>	

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