

Monday, August. 14, 2023

Laining hotel

Room Shen Zhen Ting (深圳厅) - 6th floor

10:00-12:00 Session: Hydraulic turbines Chair: Mohamed Farhat (EPFL)			
Paper ID	Time	Paper Title	Paper Authors
4	10:00-10:15	Numerical Investigation of Wake Properties of a Propeller Using Immersed Boundary Method	Haoyu Li, Kan Kan
9	10:15-10:30	Research on incipient and critical cavitation of a Francis turbine	Jing Yang, Liang Yao, Jie Liu, Zhe Ma, Yong Sun, Zhengwei Wang
10	10:30-10:45	Numerical Investigation of Performance and Flow Characteristics of Francis Turbine in Part Load Condition	Baig Mirza Umar, Xingxing Huang, Zhengwei Wang
19	10:45-11:00	Vortices Evolution Characteristics and Pressure Pulsations of Variable-speed Francis Turbine	Changbing Zhang, Chongxun Wang, Yongqi Zhang, Wenquan Wang, Demin Liu, Chunhe Shen
20	11:00-11:15	Stability analysis of hydropower unit operation conditions considering hydro-turbine nonlinearity	Xueding Lu, Chaoshun Li
124	11:15-11:30	Research on the Reliability Benchmarking Method of Generating Units	Yan Chang, Jianfeng Li, Juan Yang, Ruiyuan Zhang, Beibei Xu, Zhaoqian Wang
39	11:30-11:45	The Design and the Retrofit Implementation of the Inlet spherical Valve in Tian Huang-ping Pumped Storage power station	Xiongfeng Hu, Xiang Zhang, Yingxia Zheng, Chengjun Li, Xin Zhang
12:00-12:15 Coffee Break			
12:15-14:00 Session: Hydraulic turbines Chair: Mohamed Farhat (EPFL)			
82	12:15-12:30	Study of intensity index for extraordinary stress on blade during start-up of Francis turbine	T Mukai, M Nakazono, K Tezuka, T Hasunuma, J Matsui
90	12:30-12:45	Investigation of hydraulic characteristics of Pelton turbine with casing structure using a moving particle simulation method	S Gong, H T Zhou, Z N Wang
306	12:45-13:00	A Brief Analysis on Selection of Inlet Valve Types for a Hydropower Station	Yin Jing
41	13:00-13:15	A brief discussion on the differences between Chinese and western design engineers in the rated head selection design of hydropower station	Gao Min, Liu Guofeng, Wang Long, Wang Juan, Yu Chong
195	13:15-13:30	Analysis of Internal Flow and Vibration Characteristics of Tubular Turbine Considering Dynamic Change of Liquid Level in Reservoir Area (OL)	Yaping Zhao, Yajing Ren, Yanrong Li, Jianjun Feng, Xingqi Luo
28	13:30-13:45	Numerical simulation of fish damage in a bulb tubular turbine with different guide vane openings (OL)	Li Qian, Yu Yang, Yang Chunxia, Zhang Qianxu, Zheng Yuan
391	13:45-14:00	Study on Reliable Operation of Hydropower System and Turbine-Generator Units	Xu Yiqun, Zou Rui1, Wang Chao, Liu Diancheng, Su Guangfu, Zhan Lejun and He Xueyuan
14:00-16:00 Lunch			
16:00-18:00 Session: Hydraulic turbines Chair: Wenquan Wang (Sichuan University)			
151	16:00-16:15	Operation Mode of Hydroelectric Units for Clean Energy Consumption - Case study of Liji Xia Hydropower Station	Zhen Zhang, Junzhi Zhang, Beibei Xu, Xinyu Ma
157	16:15-16:30	Numerical simulation study of hydraulic performance of the ball valve implied in ultra-high head Pelton turbine	J Liu, J J Wang, S Gong, Z N Wang
172	16:30-16:45	Hydraulic Optimization of An Eco-friendly Bulb-Turbine	T J Zhan, J Liu, X Zhang, Z W Guan, Z N Wang
174	16:45-17:00	Investigation into the Vortex Evolution characteristics of the Francis Turbine During the Runaway Process	Li Yanyan, Guo Pengcheng, Sun Longgang, Zheng Xiaobo

177	17:00-17:15	Study on partial load vortex and pressure pulsation characteristics of Francis turbine	Zheng XB, Sun SH, Wang ZR, Ren P, Qin ZL, Yu Y, Zhou H
228	17:15-17:30	A Comparative Analysis on the Efficient and Stability Cam Curve of a 200 MW Kaplan Turbine Unit	W Zhao, M Xia, Z Wang
309	17:30-17:45	Strength Evaluation of the Flow Passage Stationary Structures of a Large Francis Turbine Unit	L Jiang, J Xiao, W Zhao, X Huang, J Cao, Z Wang
18:00-18:15 Coffee Break			
18:15-20:00 Session: Hydraulic turbines Chair: Wenquan Wang (Sichuan University)			
224	18:15-18:30	Analysis of ultra-low frequency Oscillation mechanism of hydraulic turbine governor under different control modes	G Li, C Feng, Y Zheng
232	18:30-18:45	Design of Pelton Turbine Test Stand in Plateau Environment	Jinhan Cai, Xuejun Zhou, Hongying Luo, Zhengwei Wang
242	18:45-19:00	Study on the design of short blade offset for the long and short blade runner of 1000 MW hydraulic turbine units	Yonggang Lu, Zequan Zhang, Hao Chen, Kui Liu, Xingxing Huang, Honghui Li, Zhengwei Wang, Alexandre Presas
246	19:00-19:15	Study of hydraulic turbine rheological noise distribution law based on defective runner blade	Hongjiang Pan, Fengrong Yu, Yun Zeng, Yuchen Liu, Jianping Guo
256	19:15-19:30	Investigation on Large Fluctuation Transient Process of High Head Pelton Turbine	J Gao, L Han, H J Wang, Y X Liu, X Z Wei, D Q Qin
260	19:30-19:45	Evaluation of Forces on the Needle for Regulation of Pelton Turbine Injector (OL)	F Khan, A Kumar, T Staubli
20:00-22:00 Dinner			

Online connections:

Tencent Meeting (VooV Meeting):
ID: 148-121-317

Microsoft Teams:
ID: 954 280 971 780 9
Password: 7PX5gJ