

Monday, August. 14, 2023

Laining hotel

Room Fu Jian Ting (福建厅) - 6th floor

10:00-12:00 Session: Hydraulic turbines Chair: Wei Yan (Andritz (China) Co., Ltd.)			
Paper ID	Time	Paper Title	Paper Authors
52	10:00-10:15	IEC 62882 Francis turbine pressure fluctuation transposition from model to prototype(OL)	Qin Daqing, Xu Yongliang, Wu Xidong, Meng Xiaochao
64	10:15-10:30	Optimization Design and Test Verification of Guide Vanes for a Fish-Friendly Francis Turbine	Y L Yi, W P Wang, T Y Li, Z X Gao, L Lu , L He
76	10:30-10:45	Analysis of the factors influencing the guide vane hydraulic torque of Francis turbine	X Y Ji, M X Xie and X La
80	10:45-11:00	Experimental study on draft tube of a model Kaplan turbine	Lianchen Xu, Kan Kan, Yuan Zheng and Demin Liu
92	11:00-11:15	Hydraulic simulation analysis of runners with different bucket numbers	Zhou Hengte, Gong sheng, Wang Zhaoning, Liang Quanwei
98	11:15-11:30	Vortex Characteristics in the Draft Tube of a Francis Turbine under Different Working Conditions	Yuanhang Hou, Linmin Shang, Ming Xiao, Shenhui Li, Zhen Li, Haibin Zhang, Yinhui Cai, Yongzhong Zeng, Lei Zou, Jiayang Pang , Xiaobing Liu
56	11:30-11:45	Study on erosion characteristics of turbine in sediment-laden river	Xin-Yu Wei, Jun-Xian Pei, Guo Xie, Wen-Quan Wang
12:00-12:15 Coffee Break			
12:15-14:00 Session: Hydraulic turbines Chair: Wei Yan (Andritz (China) Co., Ltd.)			
290	12:15-12:30	Analysis Factors on the Hydraulic Torque of Guide Vane of Francis Turbine	X Y Ji, M X Xie , X Lai
207	12:30-12:45	Data-model interactive health condition assessment for hydropower unit	Yujie Liu, Jie Liu, Fengyuan Zhang, Hua Gao, Yuxin Li , Xiaohui Yuan
263	12:45-13:00	Investigation on hydraulic loss characteristic of Kaplan turbines based on entropy generation theory	Boxing Liu, Jianjun Feng, Zhaoning Wang, Ziwu Guan, Guojun Zhu
388	13:00-13:15	A review of the experimental techniques research progress of the Pelton turbine	Gui Zhonghua, Xiao Yexiang, Li Dongkuo, Xiao Wei, Lin Hao, Liu Zishi, Zhu Yilin
338	13:15-13:30	Understanding the modal response of a full-scale 200 MW Francis turbine runner	R Roig , X Sánchez-Botello, E Wiborg, X Escaler
355	13:30-13:45	Analysis of oil film flow characteristics and lubrication performance of thrust bearing of 1000MW Hydraulic Turbine Unit	Yishu Shi, Siyuan Wu, Xingxing Huang, Xingmin Liu, Zhengwei Wang
365	13:45-14:00	Influence of tungsten carbide spray treatment on anti-wear performance of Francis turbine runner blades surface	Bing Yao, Yuanyuan Gang, Shenhui Li, Ming Xiao, Zhishun Yu, Dengyun Jiang, Bei Qin, Yijin Zhou, Mengjun Qin, Jiayang Pang, Xiaobing Liu
14:00-16:00 Lunch			
16:00-18:00 Session: Pumps Chair: Ji Pei (Jiangsu University)			
26	16:00-16:15	Study on the Combined Transition Process of Water Pump and Turbine	Yang Fuchao, Zhang Zhengyang
35	16:15-16:30	Numerical analysis of the transient characteristics of internal flow in the acceleration process of variable speed regulation of a centrifugal pump	Haichen Zhang, Jian Sun, Wei Dong, Yan Dong, Peixuan Li
86	16:30-16:45	Analysis of pressure pulsation in a multi-stage double suction centrifugal pump	Wenjie Peng, Ji Pei, Shouqi Yuan, Wenjie Wang
115	16:45-17:00	Performance prediction of IS centrifugal pump based on improved BP neural network	D H Yu1, Y Chen, C Wang, Y C Yang1, L L Ma, W S Ma

150	17:00-17:15	Erosion characteristics of a centrifugal pump based on rosin-rammler distribution of particles	Haili ZHANG, Mendi CHEN, Guosheng XIA, Lei TAN
204	17:15-17:30	Research on Pressure Surge and Hydraulic Load in Primary Loop under Axial-flow Reactor Coolant Pump Rotor Seizure Condition	CUI Haoyu, YANG Congxin, GUO Yanlei, CHEN Xiaoyan , LV Tianzh
18:00-18:15 Coffee Break			
18:15-20:00 Session: Pumps & Vortex breakdown Chair: Ji Pei (Jiangsu University)			
89	18:15-18:30	Influence of extenal characteristics of vane sweptback angle double suction pump in sandy water	R N Li,F X Li, Y P Tian
91	18:30-18:45	Impact of Start-up Modes on Pressure Fluctuation and Shaft Vibration in Mixed-flow Pump	Yifan Xuan, Guojun Zhu, Zhenbo Tang, Jianjun Feng
97	18:45-19:00	Investigation on the Influence of Overflow Hole Diameter on Start-up process of Axial Flow Pump System	Xiaowen Zhang, Chong yang Hu, Fangping Tang
237	19:00-19:15	Data acquisition in a simplified turbine model for prediction of unsteady vortex phenomena	S Skripkin, D Suslov, E Gorelikov, M Tsoy and I Litvinov
208	19:15-19:30	Effectiveness of Air Admission through Short Pipes in Reducing Pressure Fluctuation of Axial-flow Fixed-blade Turbine Flow Channel	Huanyu Wu, Yongyao Luo, Faye Jin
20:00-22:00 Dinner			

Online connections:

Tencent Meeting (VooV Meeting):
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