



Technical Sessions (Wednesday Evening, September 19)

Wednesday Evening (September 19) 15:30 - 17:10

Pumps 8 (RY204)

Chairs: Dr. Shigeyuki Tomimatsu (DMW Corporation, Japan), Dr. Jin-Hyuk Kim (Korea Institute of Industrial Technology, Korea)

[IAHR2018-210](#) “Origin and formation process of a submerged vortex in a pump sump”, Yoshinobu Yamade (Mizuho Information & Research Institute, Inc., Japan), Chisachi Kato (The University of Tokyo, Japan), Takahide Nagahara (Hitachi, Ltd., Japan), Jun Matsui (Yokohama National University, Japan)

[IAHR2018-249](#) “Experimental study of subsurface vortices at pump intake with an improved diversion-cone”, Zilong Zhao (Tsinghua University, China), Zhongdong Qian (Tsinghua University, China), Zhiwei Guo (Tsinghua University, China), Pengfei Wu (Tsinghua University, China)

[IAHR2018-273](#) “Evaluation Strategy of Particle Swarm Optimization and It’s Application in Pumping Station System Optimal Operation”, Fangling Zhao (Yangzhou University, China), Xiaoli Feng (Yangzhou University, China)

[IAHR2018-291](#) “LES Simulation of Air-Core Vortex in Intake Flow Field of Pumping Station”, Dan Zi (China Agricultural University, China), Lian Shen (University of Minnesota, United States), An Qing Xuan (University of Minnesota, United States), Fu Jun Wang (China Agricultural University, China)

[IAHR2018-084](#) “Influence of prewhirl angle on a centrifugal pump with inlet guide vane running in turbine mode”, Ming LIU, Lei TAN (Tsinghua University, China), Shuliang CAO (Tsinghua University, China)