



Technical Sessions (Tuesday Afternoon, September 18)

Tuesday Afternoon (September 18) 13:30 - 15:30

Pumps Working As Turbines 1 (RY203)

Chairs: Dr. Syusaku Kagawa (Ebara Corporation, Japan), Prof. Mehrdad Raisee Dehkordi (University of Tehran, Iran)

[IAHR2018-449](#) “Characteristics and Internal Flow of a Low Specific Speed Pump used as a Turbine”, Zhihao Liu (WASEDA University, Japan), Kazuyoshi Miyagawa (WASEDA University, Japan), Tatsuto Yukawa (WASEDA University, Japan), Roshanak Fahimi (University of Tehran, Iran), Mojtaba Tahani (University of Tehran, Iran)

[IAHR2018-414](#) “Numerical Analysis on the Impeller Blade Load of Hydraulic Turbine under Gas-Liquid Two Phase Condition”, Fengxia Shi (Lanzhou University of Technology, China), Senchun Miao (Lanzhou University of Technology, China), Renhui Zhang (Lanzhou University of Technology, China), Yanlei Guo (Lanzhou University of Technology, China), Sushi Yue (Lanzhou University of Technology, China)

[IAHR2018-357](#) “Optimisation of a pump-as-turbine runner using a 3D inverse design methodology”, Peng Wang (Advanced Design Technology, United Kingdom), Maira Vera-Morales (Advanced Design Technology, United Kingdom), Marc Vollmer (Advanced Design Technology, United Kingdom), Mehrdad Zangeneh (University College London, United Kingdom), Baoshan Zhu (Tsinghua University, China), Zhe Ma (Tsinghua University, China)

[IAHR2018-403](#) “Numerical Simulation of Two-phase Flow in an Energy Recovery Micro-Hydraulic Turbine Based on Francis Hydraulic Model”, Shuaihui Sun (Xi'an University of Technology, China), Ye Pang (Xi'an University of Technology, China), Pengcheng Guo (Xi'an University of Technology, China), Xiaobo Zheng (Xi'an University of Technology, China), Jianguo Yan (Xi'an University of Technology, China), Denghui He (Xi'an University of Technology, China), Xingqi Luo (Xi'an University of Technology, China)

[IAHR2018-341](#) “Investigating the effect of the type and diameter of volute on the efficiency of centrifugal reverse pump at different operating conditions”, Mojtaba Tahani (University of Tehran, Iran), Roshanak Fahimi (University of Tehran, Iran), Hossein Yousefi (University of Tehran, Iran), Younes Noorollahi (University of Tehran, Iran), Kazuyoshi Miyagawa (WASEDA University, Japan), Majid Najafpour (Iran University of Science and Technology, Iran), Majid Mehrnia (University of Tehran, Iran), Salman Saremian (Islamic Azad University, Iran)