

Technical Sessions (Wednesday Morning, September 19)

Wednesday Morning (September 19) 10:10 - 12:10

Cavitation and Multiphase Flow 6 (RY305)

Chairs: Prof. Yuka Iga (Tohoku University, Japan), Mr. Dongsheng Guo (Lanzhou University of Technology, China)

[IAHR2018-313](#) “The gap size effect on leakage flow and cavitation in the clearance of a 2D hydrofoil: high-speed visualization and velocity measurements”, Konstantin S. Pervunin (Kutateladze Institute of Thermophysics SB RAS, Russia), Mikhail V. Timoshevskiy (Kutateladze Institute of Thermophysics SB RAS, Russia), Ivan I. Zapryagaev (Kutateladze Institute of Thermophysics SB RAS, Russia), Dmitriy M. Markovich (Kutateladze Institute of Thermophysics SB RAS, Russia), Georgy A. Semenov (PJSC "Power Machines" LMZ, Russia), Aleksandr V. Zakharov (PJSC "Power Machines" LMZ, Russia)

[IAHR2018-396](#) “Unsteady forces and moments acting on a cantilevered rectangular hydrofoil with tip clearance in cavitating conditions”, Yushin Ehara (Kyushu University, Japan), Soichiro Kitamura (Kyushu University, Japan), Wakana Tsuru (Kyushu University, Japan), Satoshi Watanabe (Kyushu University, Japan), Shin-ichi Tsuda (Kyushu University, Japan)

[IAHR2018-452](#) “On the hysteresis of incipience and desinence of tip vortex cavitation”, Ali Amini (EPFL, Switzerland), Martino Reclari (MHI, Japan), Takeshi Sano (MHI, Japan), Mohamed Farhat (EPFL, Switzerland)

[IAHR2018-117](#) “Numerical investigation into cavitating flow around a NACA66 hydrofoil with advanced turbulence models”, Longgang Sun (Xi'an University of Technology, China), Pengcheng Guo (Xi'an University of Technology, China), Xingqi Luo (Xi'an University of Technology, China), Xiaobo Zheng (Xi'an University of Technology, China), Jianguo Yan (Xi'an University of Technology, China), Jianjun Feng (Xi'an University of Technology, China)

[IAHR2018-400](#) “Flow Field and Cavitation Characteristics of Hydrofoils Coated with Hydrophilic and Hydrophobic Polymers”, Taisei Mineshima (WASEDA University, Japan), Kaoruko Onishi (WASEDA University, Japan), Kazuyoshi Miyagawa (WASEDA University, Japan)

[IAHR2018-453](#) “Boundary layer instability control around a hydrofoil in the unsteady cloud cavitating flow”, Bettar O. el Moctar (University of Duisburg-Essen, Germany), Ebrahim Kadivar (University of Duisburg-Essen, Germany)