



## Technical Sessions (Thursday Afternoon, September 20)

### Thursday Afternoon (September 20) 13:30 - 15:10

#### Hydraulic Turbines 13 (RY202)

Chairs: Dr. Yasuyuki Enomoto (Toshiba Corporation, Japan), Prof. Mohamed Farhat (EPFL, Switzerland)

[IAHR2018-381](#) **“Motion Prediction of Foreign Matters using CFD-DEM Method in Francis Turbines for Small and Medium Power Stations”**, Yamato Imasaka (WASEDA University, Japan), Hitoshi Kanno (WASEDA University, Japan), Kazuyoshi Miyagawa (WASEDA University, Japan), Motohiko Nohmi (Ebara Corporation, Japan)

[IAHR2018-260](#) **“On Modeling Runner Included into a Hydroacoustic System”**, Vladimir Yu. Borodulin (Kutateladze Institute of Thermophysics SB RAS, Russia), Aleksandr A. Dekterev (Kutateladze Institute of Thermophysics SB RAS, Russia), Pavel A. Kuibin (Kutateladze Institute of Thermophysics SB RAS, Russia), Andrey V. Minakov (Kutateladze Institute of Thermophysics SB RAS, Russia), Georgy A. Semenov (PJSC "Power Machines" LMZ, Russia), Aleksandr V. Zakharov (PJSC "Power Machines" LMZ, Russia)

[IAHR2018-265](#) **“CFD Analysis of Flow Pattern in S-Shape Region for Low Specific Speed Francis Turbine”**, Katsutoshi Kobayashi (Hitachi, Ltd., Japan), Yuta Tamura (Hitachi Mitsubishi Hydro Corporation, Japan)

[IAHR2018-271](#) **“Kaplan turbine working as a propeller: CFD investigation and experimental validation of generated power fluctuation.”**, Mauricio A Angulo (Universidad Nacional de La Plata, Argentina), Arturo Rivetti (Universidad Nacional de La Plata, Argentina), Cecilia V Lucino (Universidad Nacional de La Plata, Argentina), Sergio O Liscia (Universidad Nacional de La Plata, Argentina)

[IAHR2018-293](#) **“Numerical Investigation of Blade Tip Cavitation on Large Discharge Condition of Diagonal Turbine”**, Yuta Tamura (Hitachi Mitsubishi Hydro Corporation, Japan), Tomoaki Ishihara (Hitachi Mitsubishi Hydro Corporation, Japan), Kiyohito Tani (Hitachi Mitsubishi Hydro Corporation, Japan), Kenji Shingai (Hitachi Mitsubishi Hydro Corporation, Japan)