



## Technical Sessions (Thursday Evening, September 20)

### Thursday Evening (September 20) 15:30 - 17:10

#### Pumps 10 (RY204)

Chairs: Prof. Masahiro Miyabe (Osaka Institute of Technology, Japan), Prof. Peter Pelz (Technische Universität Darmstadt, Germany)

[IAHR2018-002](#) **“Experimental and numerical study on flow induced characteristics of centrifugal pump under air-water bubble inflow”**, Q. R. Si (Jiangsu University, China), W. T. He (Jiangsu University, China), Q. L. Cui (National Research Center of Pumps, China), S. Q. Yuan (Jiangsu University, China), G. Bois (Arts et Metiers ParisTech, France), K Y Zhang (Jiangsu University, China)

[IAHR2018-092](#) **“Investigation on gas-liquid two-phase flow centrifugal pump performances for different rotational speeds”**, Qianglei Cui (National Research Center of Pumps, China), Qiaorui Si (National Research Center of Pumps, China), Shouqi Yuan (National Research Center of Pumps, China), Gerard Bois (LMFL, FRE CNRS 3723, France, China), Jianping Yuan (National Research Center of Pumps, China)

[IAHR2018-213](#) **“Multiphase Performance and Internal Flow Pattern of Helico-axial Pumps”**, Yun Xu (Institute of fluid machinery & engineering, China), Shu Liang Cao (Institute of fluid machinery & engineering, China), Martino Reclari (Fluid Dynamics No.2 Laboratory, Japan), Tokiya Wakai (Fluid Dynamics No.2 Laboratory, Japan), Takeshi Sano (Fluid Dynamics No.2 Laboratory, Japan)

[IAHR2018-371](#) **“Three dimensional numerical analysis of inducer about suppression of cavitation instabilities by asymmetric slits on blades”**, Yoshito Kamikura (Tohoku University, Japan), Hiroki Kobayashi (Tohoku University, Japan), Yuka Iga (Tohoku University, Japan), Satoshi Kawasaki (Japan Aerospace Exploration Agency, Japan)

[IAHR2018-430](#) **“The suppression of cavitation surge in a double-suction centrifugal pump by using branch-type and slit-type accumulations installed at a pump outlet pipe”**, Tomoshige Maeda (Aoyama Gakuin University, Japan), Wakana Tsuru (Aoyama Gakuin University, Japan), Donghyuk Kang (Saitama University Graduate School, Japan), Tomoki Tsuneda (EBARA Corporation, Japan), Byungjin An (EBARA Corporation, Japan), Shusaku Kagawa (EBARA Corporation, Japan), Motohiko Nohmi (EBARA Corporation, Japan), Kazuhiko Yokota (Aoyama Gakuin University, Japan)