



## Technical Sessions (Thursday Evening, September 20)

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

#### Hydraulic Turbines 14 (RY202)

Chairs: Prof. Michel J. Cervantes (Luleå University of Technology, Sweden), Mr. Bernd Nennemann (Andritz Hydro Canada Inc., Canada)

[IAHR2018-302](#) **“A Step Forward: IEC 62097-Edition 2 ‘HYDRAULIC MACHINES, RADIAL AND AXIAL – METHODOLOGY FOR PERFORMANCE TRANSPOSITION FROM MODEL TO PROTOTYPE’**, Kotaro Tezuka (Toshiba Energy Systems & Solutions Corporation, Japan), Nadine Pajean-Wassong (EDF, France), Wolfgang Artner (ANDRITZ HYDRO GmbH, Austria), Jacob Iosfin (BC Hydro, Canada)

[IAHR2018-319](#) **“Francis turbine high load instabilities - Model Test and CFD simulation”**, Daniel Amancio Rodriguez (Universidad Nacional de La Plata, Argentina), Arturo Rivetti (Universidad Nacional de La Plata, Argentina), Mauricio Abel Angulo (Universidad Nacional de La Plata, Argentina), Cecilia Veronica Lucino (Universidad Nacional de La Plata, Argentina), Sergio Oscar Liscia (Universidad Nacional de La Plata, Argentina)

[IAHR2018-363](#) **“CFD-based rehabilitation for the high specific speed Francis turbine”**, Koichi Kubo (Toshiba Corporation, Japan), Takahiro Nakashima (Toshiba Corporation, Japan), Ryosuke Shima (Toshiba Energy Systems & Solutions Corporation, Japan), Yasuyuki Enomoto (Toshiba Corporation, Japan)

[IAHR2018-376](#) **“Development of high-efficiency and low-cost unshrouded turbine runner for small scale hydropower plant”**, Takamitsu Aida (Tanaka Hydropower Co., Ltd., Japan), Kazuyoshi Miyagawa (WASEDA University, Japan), Yohei Nakamura (WASEDA University, Japan)

[IAHR2018-311](#) **“Effect of spiral vortices on the stability of vortex structures in turbine draft tube”**, Frantisek Pochly (Brno University of Technology, Czech), Simona Fialova (Brno University of Technology, Czech), David Stefan (Brno University of Technology, Czech)