



Technical Sessions (Thursday Afternoon, September 20)

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

Hydraulic / Mechanical and Fluid / Solid Interactions 2 (RY203)

Chairs: Dr. Olivier Braun (Andritz AG, Austria), Dr. Carme Valero (Universitat Politecnica de Catalunya, Spain)

[IAHR2018-316](#) “Excitation of torsional modes in guide vanes due to rotor stator interaction”, Eivind Myrvold (Rainpower, Norway), Jan Tore Billdal (Rainpower, Norway), Petter T. K. Ostby (Rainpower, Norway), Bjorn Haugen (NTNU, Norway)

[IAHR2018-339](#) “Validation of CFD Analysis of Acoustic Effects in PumpTurbine Runners”, Olivier Braun (Andritz AG, Austria), Nicolas Ruchonnet (ANDRITZ HYDRO AG, Switzerland), Beat Horisberger (ANDRITZ HYDRO AG, Switzerland), Adrien Taruffi (ANDRITZ HYDRO AG, Switzerland), Arno Gehrler (ANDRITZ AG, Austria)

[IAHR2018-188](#) “Fluid added polar inertia and damping for the torsional vibration of a Kaplan turbine model runner considering multiple perturbations”, Arash Soltani Dehkharghani (Lulea University of Technology, Sweden), Jan-Olov Aidanpaa (Lulea University of Technology, Sweden), Fredrik Engstrom (Lulea University of Technology, Sweden), Michel J. Cervantes (Lulea University of Technology, Sweden)

[IAHR2018-013](#) “Energy Flow Transmission Analysis on the Powerhouse Vibration under Turbine Hydraulic Loads”, Zhenyue Ma (School of Hydraulic Engineering, China), Wei Xu (School of Hydraulic Engineering, China), Baoping Zhi (School of Hydraulic Engineering, China)

[IAHR2018-352](#) “Behavior of Francis turbines at part load. Field assessment in prototype: Effects on power swing”, David Valentin (UPC, Spain), Alexandre Presas (UPC, Spain), Monica Egusquiza (UPC, Spain), Carme Valero (UPC, Spain), Eduard Egusquiza (UPC, Spain)