



Technical Sessions (Monday Evening, September 17)

Monday Evening (September 17) 15:20 - 17:40

Hydraulic Systems 2 (RY303)

Chairs: Prof. Rafael Bernardo Carmona-Paredes (Universidad Nacional Autonoma de Mexico, Mexico), Mr. Rene Autrique (Policonductos, Mexico)

[IAHR2018-044](#) “Analysis of the Francis turbine upper-part-load pulsation Part I – Experimental results vs. hydro-acoustic model”, Peter Doerfler (Hydro adviser LLC, Switzerland)

[IAHR2018-043](#) “Analysis of the Francis turbine upper-part-load pulsation Part II – Mechanism of self-excitation”, Peter Doerfler (Hydro adviser LLC, Switzerland)

[IAHR2018-136](#) “Influence of Impeller’s Elastic Deformation on the Stability of Balance Piston Mechanism of Rocket Engine Turbopump”, Hiromichi Hiraki (Nagoya University, Japan), Tsuyoshi Inoue (Nagoya University, Japan), Shota Yabui (Nagoya University, Japan)

[IAHR2018-089](#) “GPU Parallel Acceleration of Transient Simulations of Open Channel and Pipeline Coupled System”, Wan Wan Meng (Wuhan University, China), Yong Guang Cheng (Wuhan University, China), Jia Yang Wu (Wuhan University, China), Zhi Yan Yang (Wuhan University, China), Shuai Shang (Zhangfeng Water Conservancy Management Company Ltd, China), Feng Yang (Construction Management Company for Chushandian Reservoir Project of Henan Province, China)

[IAHR2018-104](#) “Hydraulic transient challenges for the upgrade of FMHL+ pumped storage power plant from 240MW to 420MW”, Christophe Nicolet (Power Vision Engineering Sarl, Switzerland), Antoine Beguin (Power Vision Engineering Sarl, Switzerland), Jean-Daniel Dayer (ALPIQ Suisse SA, Switzerland), Gael Micoulet (ALPIQ Suisse SA, Switzerland)

[IAHR2018-124](#) “The Elastic Property of Water and Penstock’s Effect on Governor Stability”, Torbjorn K. Nielsen (NTNU, Norway), Bjornar Svingen (Hymatec and NTNU, Norway), Ingrid K Vilberg (NTNU and FDB, Norway)

[IAHR2018-068](#) “Transient Hydraulic Calculations with a Linear Turbine Model derived from a Nonlinear Synthetic Model”, Bjornar Lona Svingen (NTNU / Hymatek Controls, Norway), Torbjorn K Nielsen (NTNU, Norway)