



## Technical Sessions (Monday Afternoon, September 17)

### Monday Afternoon (September 17) 13:00 - 15:00

#### Hydraulic Systems 1 (RY303)

Chairs: Prof. Kazuhiro Tanaka (Kyushu Institute of Technology, Japan), Dr. Christophe Nicolet (Power Vision Engineering Sarl, Switzerland)

[IAHR2018-003](#) “**Transient Characteristics of a Centrifugal Pump at Rapid Startup**”, Teiichi Tanaka (National Institute of Technology, Kumamoto College, Japan), Naoto Takatsu (National Institute of Technology, Kumamoto College, Japan)

[IAHR2018-008](#) “**Modification of the shell type trifurcation shape for penstock design in A hydraulic plant by numerical simulations**”, Young-Joon Kim (K-water, Korea), Jung-Jae Hyun (K-water, Korea), Jong-Woong Choi (K-water, Korea), Won-Guk Jang (K-water, Korea), Yong Cho (K-water, Korea), In-Jun Cho (K-water, Korea), Young-Il Kim (K-water, Korea), Tai-Young Cho (K-water, Korea)

[IAHR2018-014](#) “**Effect of Throttling Orifice Head Loss on Dynamic Behavior of Hydro-turbine Governing System with Air Cushion Surge Chamber**”, Wencheng Guo (Huazhong University of Science and Technology, China), James Yang (Royal Institute of Technology, Sweden), Jiebin Yang (Wuhan University, China)

[IAHR2018-030](#) “**Detection of Extended Blockages in Pressurised Pipelines using Hydraulic Transients with a Layer-Peeling Method**”, Wei Zeng (The University of Adelaide, Australia), Jinzhe Gong (The University of Adelaide, Australia), Martin Lambert (The University of Adelaide, Australia), Angus Simpson (The University of Adelaide, Australia), Benjamin Cazzolato (The University of Adelaide, Australia), Aaron Zecchin (The University of Adelaide, Australia)

[IAHR2018-034](#) “**A New Method to Calculate Hydraulic Transients in HDPE Pipes Using the Standard Solid Model to Represent the HDPE Viscoelastic Behaviour**”, Rafael B Carmona-Paredes (Universidad Nacional Autonoma de Mexico, Mexico), Rene Autrique (Policonductos, Mexico), Eduardo Rodal-Canales (Universidad Nacional Autonoma de Mexico, Mexico), David Paniagua-Lovera (Universidad Nacional Autonoma de Mexico, Mexico)

[IAHR2018-042](#) “**Numerical Analysis for Transient Process of Hydropower and Water-supply System Sharing a Headrace Tunnel**”, Jiebin Yang (Wuhan University, China), Jiandong Yang (Wuhan University, China), Wencheng Guo (Huazhong University of Science and Technology, China), Anting Ma (Wuhan University, China)