



Technical Sessions (Wednesday Afternoon, September 19)

Wednesday Afternoon (September 19) 13:10 - 15:10

Sustainable Hydropower 2 (RY203)

Chairs: Prof. Shin-ichi Tsuda (Kyushu University, Japan)

[IAHR2018-159](#) **“Performance of a Submerged Impulse Hydro Turbine”**, Takuto Azegami (Graduate School of Shinshu University, Japan), Yusuke Katayama (Kyushu University, Japan), Yoshiaki Haneda (National Institute of Technology, Nagano College, Japan), Shouichiro Iio (Shinshu University, Japan)

[IAHR2018-174](#) **“Design of a New Kaplan Pico-Turbine Runner Blades”**, Ludovic Favre (University of Applied Sciences of Western Switzerland, Switzerland), Nicolas El Hayek (University of Applied Sciences of Western Switzerland, Switzerland), Maxime Chiarelli (University of Applied Sciences of Western Switzerland, Switzerland), Elena-Lavinia Niederhauser (University of Applied Sciences of Western Switzerland, Switzerland), Laurent Donato (University of Applied Sciences of Western Switzerland, Switzerland)

[IAHR2018-205](#) **“Particle-based Evaluations of Fish-friendliness in Kaplan Turbine Operations”**, Pedro Romero-Gomez (Andritz HYDRO GmbH, Austria), Monika Lang (Andritz HYDRO GmbH, Austria), Josef Michelcic (Andritz HYDRO GmbH, Austria), Simon Weissenberger (Andritz HYDRO GmbH, Austria)

[IAHR2018-215](#) **“Torque Loss Occurring on a Submerged Impulse Hydro Turbine”**, Saki Usami (Graduate School of Shinshu University, Japan), Hiroki Koyama (Graduate School of Shinshu University, Japan), Takuto Azegami (Graduate School of Shinshu University, Japan), Yusuke Katayama (Kyushu university, Japan), Yoshiaki Haneda (National Institute of Technology, Nagano College, Japan), Shouichiro Iio (Shinshu university, Japan)

[IAHR2018-268](#) **“Design and Performance Evaluation of a Substitution Solution for Spiral Casing of Pico-Hydroelectric Plants”**, Ludovic Favre (University of Applied Sciences of Western Switzerland, Switzerland), Nicolas El Hayek (University of Applied Sciences of Western Switzerland, Switzerland), Maxime Chiarelli (University of Applied Sciences of Western Switzerland, Switzerland), Elena-Lavinia Niederhauser (University of Applied Sciences of Western Switzerland, Switzerland), Laurent Donato (University of Applied Sciences of Western Switzerland, Switzerland)

[IAHR2018-277](#) **“Effect of Guidevane on the Characteristics of a Propeller-Type Hollow Micro-Hydraulic Turbine with Excellent Performance in Passing Foreign Matter”**, Tomomi Uchiyama (Nagoya University, Japan), Tomohiro Degawa (Nagoya University, Japan), Satoshi Honda (Hokuriku Electric Power Company, Japan), Takuji Kawai (Ricoh Company, Ltd., Japan), Kenichi Uehara (Ricoh Company, Ltd., Japan), Yoichi Maekawa (Ricoh Company, Ltd., Japan)