

# **International Symposium on Hydro & Marine Renewable Energy**

## **(수력-해양 재생에너지 국제심포지엄)**

1. Organization : Korean Society for Fluid Machinery(KSFM)
  2. Date : 21<sup>st</sup> (Thur.) February 2019
  3. Place : Asti Hotel Busan(near Busan Railway station)
  4. Sponsors : KMOU, KOMERI
  5. Program
- 09:00-09:15 : registration
  - 09:15-09:30 Welcoming speeches from KSFM(president), KOMERI(president)
  - 09:30-09:55 Industrial applications of fully-resolved LES in the post-K era,  
Chisachi Kato(The University of Tokyo)
  - 09:55-10:20 Development and Utilization of Tidal energy in China,  
Zhengwei Wang(Tsinghua University)
  - 10:20-10:45 Scaling up capacity of Nepalese Turbine manufactures and review of  
associated challenges, Bhola Thapa(Kathmandu University)
  - 10:45-11:10 Comparison of Flow induced vibrations in a hydro power plant and  
a Lab. scale model test, Jungwan Park(KHNP)
  - 11:10-11:35 Experimental studies on the optimization design of a low specific  
speed centrifugal pump, Jinfeng Zhang(Jiangsu University)
  - 11:35-12:00 Discussion
  - *12:00-13:00 lunch*
  - 13:00-13:25 E-turbo compressor technology for fuel cell engines,  
Yangjun Zhang(Tsinghua University)
  - 13:25-13:50 Performance study on low head bulb turbines under considering  
free surface and water gravity,  
Weili Liao (Xi'an University of Technology)
  - 13:50-14:15 The influence on structure vibrations of water acoustic modes,  
Lingjiu Zhou(China Agricultural University)
  - 14:15-14:40 Using the hydro and ocean energy in K-water,

YoungJoon Kim(K-Water)

- 14:40-15:00 Discussion
- 15:00-15:20 *coffee break*
- 15:20-15:45 Flutter characteristics of a hydrofoil with and without cavitation,  
Kazuyoshi Miyagawa(WASEDA university)
- 15:45-16:10 Introduction to construction plan of sea test bed for tidal current  
energy converters in Jindo Korea, Dong Hui Ko(KIOST)
- 16:10-16:35 A Wave Energy Converter for Regions with Medium Wave Energy  
Density,  
Jiahn-Horng Chen(National Taiwan Ocean University)
- 16:35-17:00 Development and Future Prospects for Tidal Stream Turbines in  
China,  
Xueming Zhang (Northeast Normal University)
- 17:00-17:25 Cavitation in automotive torque converter,  
Satoshi Watanabe(Kyushu University)
- 17:25-17:45 Discussion
- 17:45-17:50 Closing Remarks
- 18:00-20:00 *Dinner(invited)*
  - All presentations are simultaneously interpreted in English-Korean