International Symposium on Ocean Renewable Energy Technologies

and

RIAM Research Workshop of Designated Joint Research Project on Development of Floating Marine Renewable Energy Systems

December 19-20, 2014 W601, RIAM, Kyushu University, Kasuga, Fukuoka, Japan

Organized by Research Institute for Applied Mechanics, Kyushu University

 ${\it Co-Organized~by}$ Research and Education Center for Advanced Energy Materials, Devices, and Systems, Kyushu University

TIME TABLE

19 December (Friday)

17 December (Friday)	
13:00 - 13:10	Opening Address Yuji Ohya (Director, RIAM, Kyushu University, Japan)
13:10 - 14:00	Keynote Invited Lecture Numerical and experimental strategies for tidal turbine farms design Pierre Ferrant (Director, LHEEA Lab, Ecole Centrale de Nantes, France)
14:00 - 14:50	Keynote Invited Lecture Offshore Wind Energy in the US and the Development of new IEC Design Standards for Offshore Wind Turbines James Manwell (Director, Wind Energy Center, University of Massachusetts, USA)
14:50 - 15:00	Coffee break
15:00 - 15:30	Downwind Rotor Technologies for Offshore Wind Turbines Shigeo Yoshida (Kyushu University, Japan)
16:00 - 16:30	Numerical Simulations of Offshore Wind Turbine Wake Flows and its Supported Floating Platform Flows Decheng Wan (Shanghai Jiao Tong University, China)
15:30 - 16:00	A Preliminary Design and Performance Estimation of an Ocean Current Turbine
	Kohei Tokunaga, Hidetsugu Iwashita (Hiroshima University, Japan)
17:00 - 17:30	CFD Simulation of a Horizontal Axis Tidal Turbine based on OpenFOAM
	Cheng Liu, Changhong Hu (Kyushu University, Japan)
17:30 - 18:00	Development of accurate and practical unstructured-grid model for interfacial multi-phase fluid dynamics Feng Xiao, Bin Xie (Tokyo Institute of Technology, Japan)

20 December (Saturday)

9:00 - 9:30	Numerical and experimental study of the aero/hydrodynamics of FOWT in HEU Liang Zhang (Harbin Engineering University, China)
9:30 - 10:00	Prescreening of environmental conditions for dynamic analysis of floating structures
	Dong-Hyun Kim, Taeyoung Kim, Yonghwan Kim (SNU, Korea)
10:00 - 10:30	Precition of springing-induced tension on TLPs Taeyoung Kim, Yonghwan Kim (SNU, Korea)
10:30 - 11:00	Characteristics of Motions of a Floating Body for Offshore Wind Power Generation
	Kyohei Kajino, Hidetsugu Iwashita, Yasushi Higo (Hiroshima University, Japan)
11:00 - 11:30	Hydrodynamic prediction of FOWT with multiple wind-lens turbines Yingyi Liu, Changhong Hu (Kyushu University, Japan)
11:30 - 12:00	Conversion efficiency of Backward Bent Duct Buoy Yasutaka Imai (Saga University, Japan)
12:00 - 13:00	Lunch
13:00 - 13:30	Measurement of sloshing flows using Particle Image Velocimetry Jieung Kim, Sang-Yeob Kim, Yonghwan Kim (SNU, Korea)
13:30 - 14:00	Zero scattered-wave energy and wave pattern in cloaking phenomenon Takahito Iida, Mariko Miki, Masashi Kashiwagi (Osaka University, Japan)
14:00 - 14:30	Development of an ocean current turbine at OIST Katsutoshi Shirasawa, Tsumoru Shintaki (Okinawa Institute of Science and Technology, Japan) Kohei Tokunaga, Hidetsugu Iwashita (Hiroshima University, Japan)
14:30 - 15:00	Offshore wind farm experiment using Wind-lens turbines Tomo Nagai (Kyushu University, Japan)
15:00 - 15:30	Recent Progress of Tidal Current Power Projects in Japan Yusaku Kyozuka (Kyushu University, Japan)
15:30 - 15:40	Closing Remarks Hidetsugu Iwashita (Hiroshima University, Japan)

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