

**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

*Co-Organized by*  
Research and Education Center for Advanced Energy Materials, Devices, and Systems,  
Kyushu University

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**TIME TABLE**

19 December (Friday)

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| 13:00 - 13:10 | Opening Address<br>Yuji Ohya (Director, RIAM, Kyushu University, Japan)   |
| 13:10 - 14:00 | <i>Keynote Invited Lecture</i><br>Numerical and experimental strategies for tidal turbine farms design<br>Pierre Ferrant (Director, LHEEA Lab, Ecole Centrale de Nantes, France)  |
| 14:00 - 14:50 | <i>Keynote Invited Lecture</i><br>Offshore Wind Energy in the US and the Development of new IEC Design Standards for Offshore Wind Turbines<br>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<br>Shigeo Yoshida (Kyushu University, Japan)   |
| 16:00 - 16:30 | Numerical Simulations of Offshore Wind Turbine Wake Flows and its Supported Floating Platform Flows<br>Decheng Wan (Shanghai Jiao Tong University, China)   |
| 15:30 - 16:00 | A Preliminary Design and Performance Estimation of an Ocean Current Turbine<br>Kohei Tokunaga, Hidetsugu Iwashita (Hiroshima University, Japan)   |
| 17:00 - 17:30 | CFD Simulation of a Horizontal Axis Tidal Turbine based on OpenFOAM<br>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<br>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 Precision 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 Kyojuka (Kyushu University, Japan)
- 15:30 - 15:40 Closing Remarks  
Hidetsugu Iwashita (Hiroshima University, Japan)

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