

The 1st International Symposium on Marine Renewable Energy System Dynamics

Organized by Research Institute for Applied Mechanics, Kyushu University

Date: February 24, 2023 (From 10:10 Japan time)

Venue: Research Institute for Applied Mechanics (RIAM), Kyushu University

6-1 Kasuga-koen, Kasuga, Fukuoka 816-8580, Japan

Online participation:

<https://riam-kyushu-u-ac-jp.zoom.us/j/82592030283> (ID: 825 9203 0283, PW: riam0224)

TIME TABLE

10:10 -10:20	Opening Address by Changhong Hu
Session 1 <i>Advanced CFD for Wind Turbine Simulation</i>	
10:20 - 11:00	Takanori Uchida (RIAM, Kyushu University) <i>Invited Lecture</i> Wind Turbine Wake Simulation by using RIAM-COMPACT LES Model
11:00 - 11:30	Seiya Watanabe (RIAM, Kyushu University) Numerical Simulation of Wind Farm by Lattice Boltzmann Method
11:30 - 12:00	Yos Panagaman Sitompul (Tokyo Institute of Technology) Simulation of Foam Formation Using LBM with MPF Model and AMR Method, Incorporating a Large Number of Bubbles
12:00 - 13:00	Lunch break
Session 2 <i>Ocean Renewable Energy Technologies</i>	
13:00 - 13:30	Ye Li (Shanghai Jiao Tong University, China) An Overview of China-Australian Joint Research Center for Offshore Wind and Wave Energy Harvesting
13:30 - 14:00	Yusaku Kyojuka , Yusuke Kitajima, Gin Miake, Yuichi Yokoi (Nagasaki University) A Wave Energy Converter Making Use of Eccentric Rotating Mass Device
14:00 - 14:30	Ryoya Hisamatsu , Tomoaki Utsunomiya (Kyushu University) Experimental and Theoretical Investigation on the Dynamics of a Water Intake Riser for a Floating OTEC
14:30 - 15:00	Lei Li (Zhejiang Ocean University, China) Study on Vortex-Induced Motion Characteristics and Suppression of a Circular Cylinder
15:00 - 15:20	Break

Session 3 **Offshore Wind Energy Technologies**

15:20 - 16:00	Shiu-Wu Chau (National Taiwan University, Taiwan, R.O.C.) <i>Invited Lecture</i> Performance Prediction of a 15MW Floating Wind Turbine System Using Semi-Submersible Taida Floating Platform in the Hsinchu Offshore Area
16:00 - 16:30	Zhiteng Gao (Shanghai Jiao Tong University, China) Aerodynamic Characteristics of Wind Turbine in Plateau Area
16:30-17:00	Watchara Tongphong (Korea Maritime & Ocean University, Korea) A Fully Coupled Aero-Hydrodynamic Analysis of a 10 MW Floating Offshore Wind Turbine using High-Fidelity Computational Fluid Dynamics
17:00 - 17:30	Xiaobo Zheng (Shanghai Jiao Tong University, China) Experimental and Numerical Study on the Aerodynamic Response of a Pitching Foil to the Vortex Shedding
17:30 - 18:00	Zhiqiang Hu (Newcastle University, UK) Offshore Wind and Artificial Intelligence: Real-Time Monitoring and Predictive Maintenance for Offshore Wind Turbines
18:00 - 18:10	Closing Address by Ye Li

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