International RIAM Symposium in Kyushu University

Analysis on marine renewable energy dynamics and marine environment dynamics

Date :	December	16	(Friday)	&	17	(Saturday),	2011
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Place: Large-Meeting Room, 2nd Floor of RIAM, Kyushu University 6-1 Kasuga-koen, Kasuga, Fukuoka 816-8580, Japan

December 16 (Friday)

13:00 - 13:10 Opening Address by Masashi Kashiwagi (Osaka University)

Chair: Changhong Hu (Kyushu University)

13:10 - 13:40 Coupled Problem of Dam-Break Flows	
Alexander Korobkin (University of East Anglia,	UK)

- 13:40 14:10 Simulation of 3D Fully Nonlinear Water Waves based on GN Theory Wenyang Duan (Harbin Engineering University, China)
- 14:10 14:30 Added Resistance Computation by Using Far- and Near-Field ApproachesM.G. Seo, D.M. Park, K.H. Kim, Y. Kim (Seoul National University, Korea)
- 14:30 14:50 Large-Scale GPU Tsunami Simulation on a Multi-Level Mesh Marlon Arce Acuna (Tokyo Institute of Technology)
- 14:50 15:10 Application of Lattice Boltzmann Method for Environmental Flow Simulation Fei Jiang, Changhong Hu (Kyushu University)

15:10 - 15:30 (Coffee Break)

Chair: Masashi Kashiwagi (Osaka University)

15:30 - 16:00 Development of Tidal and Ocean Current Generator System Suitable for the Sea around Japan
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Yoshimasa Minami (National Maritime Research Institute)

- 16:00 16:20 Model Testing and Performance Evaluation of a Shrouded Horizontal Axis Tidal Turbine Huihui Sun, Yusaku Kyozuka (Kyushu University)
- 16:20 16:50 Experimental Study on a Flapping Wing Hydroelectric Power Generator Hisanori Abiru (Fukuoka Institute of Technology)
- 16:50 17:10 Fundamental Research on the Energy Transmission Efficiency of a Rotating Pendulum-type Wave-power Generator Saki Nishimatsu (Osaka University)

17:10 - 17:30 Tank Tests about TLP Type Offshore Wind Turbine Using an Elastic Model Minori Kozen, Yasunori Nihei, Kazuhiro Yiijima (Osaka Prefecture University)

 17:30 - 17:50 Coupled Horizontal and Torsional Response of a Floating Structure by an Advanced Torsional Beam Theory Nao Kameyama (Osaka University)

18:00 - Dinner Party at Medium-Meeting Room, 2nd Floor of RIAM

December 17 (Saturday)

Chair: Yonghwan Kim (Seoul National University)

- 9:00 9:30 Fluid/Structure Impact: Water Entry Guo Xiong Wu (University College London, UK)
- 9:30 9:50 Fluid Impact on a Corrugated Plate with Trapped Gas Cavity Tatyana Ivanovna Khabakhpasheva (Lavrentyev Institute of Hydrodynamics, Russia)
- 9:50 10:10 Comparative Study on Sloshing Model Tests S.Y. Kim, K.H. Kim, Y.Kim (Seoul National University, Korea)
- 10:10 10:30 Experimental Study on Water Entry of Horizontal Cylinder Changhong Hu, Zhaoyu Wei (Kyushu University)

10:30 - 10:40 (Coffee Break)

Chair: Guo Xiong Wu (University College London)

- 10:40 11:00 Analyses and Comparison on Ship Hydroelasticity by Using Different Levels of Numerical Approach J.H. Kim, K.H. Kim, Y. Kim (Seoul National University)
- 11:00 11:20 An Experimental Study on Dynamic Collapse Behavior of a Floating Structure Subjected to Extreme Loads Hiroki Hotta (Osaka University)
- 11:20 11:40 Numerical Simulation of a Damaged Floating Body by the MPS Method Hirotada Hashimoto (Osaka University)
- 11:40 12:00 Statistical Model of Ship Propulsion Plant for Performance Assessment in Actual Seas Oleksiy Bondarenko (Osaka University)

12:00 - 12:10 Closing Address by Changhong Hu (Kyushu University)