

International RIAM Symposium in Kyushu University
Analyses of Strongly Nonlinear Fluid-Structure Interactions

Date : December 21 (Tuesday) & 22 (Wednesday), 2010

Place: Multi-purpose Meeting Room (W601), 6th Floor of RIAM, Kyushu University

December 21 (Tuesday)

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

Chair: Changhong Hu (Kyushu University)

13:10 - 13:40 Springing Analysis on 10,000TEU Containership

J.H. Kim, B.C. Kang, Y. Kim (Seoul National University)

13:40 - 14:10 A System for Loads and Load Effects of Ships Subjected to External and Internal Fluid Actions in Waves

Kosuke Seki (Osaka University)

14:10 - 14:40 Nonlinear Evolution of Rogue Waves on Currents: Numerical Simulation Based on the NLS Equation

Hanhong Hu and Ning Ma (Shanghai Jiao Tong University)

14:40 - 15:10 Development of Partitioned FSI Analysis Method

Kangping Liao, Changhong Hu (Kyushu University)

15:10 - 15:30 (Coffee Break)

Chair: Masashi Kashiwagi (Osaka University)

15:30 - 16:00 Motion Analysis by Using a CIP-Based Numerical Method

K.K. Yang, Y. Kim (Seoul National University)

16:00 - 16:30 Effects of Varying Bathymetry on Floating Body Motion

T.Y. Kim, K.H. Kim, Y. Kim (Seoul National University)

16:30 - 17:00 Aerodynamic Effects on the Motion of Offshore Wind Turbine in Waves

Yasunori Nihei (Osaka Prefecture University)

17:00 - 17:30 Wave Elevation around a 3D Floating Breakwater

Faisal Mahmuddin, Masashi Kashiwagi (Osaka University)

17:30 - 18:00 Introduction of Recent Underwater Vehicle Development in China

Bin Fu (Shanghai Jiao Tong University)

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

December 22 (Wednesday)

Chair: Ning Ma (Shanghai Jiao Tong University)

9:00 - 9:20 Sloshing Model Tests for LNG Carrier

K.H. Kim, S.Y. Kim, Y. Kim (Seoul National University)

9:20 - 9:40 Research and Development of TLP Type Offshore Wind Turbines

Yasunori Nihei, Midori Matsuura (Osaka Prefecture University)

9:40 - 10:00 Experimental Observation on Green-water Impact and Slamming

Sunbum Kim, Tomohiko Isshiki, Masashi Kashiwagi (Osaka University)

10:00 - 10:20 Calculation of Impact Load and Structural Response in Water-Elastic Body Impact

Utilizing General-Purpose FE Software

Masakazu Nakashima (Kyushu University)

10:20 - 10:30 (Coffee Break)

Chair: Yonghwan Kim (Seoul National University)

10:30 - 10:50 Hydro-Elastoplasticity Approach for Dynamic Collapse Behavior of Hull Girder
in Waves

Yasuyuki Goto (Osaka University)

10:50 - 11:10 Application of the MPS Method for Ships' Dynamic Stability Problems

Tomohiro Sugimoto (Osaka University)

11:10 - 11:30 Comparison of Numerical Simulation and Experiment for Floating Fish Cage Systems

Motoki Misaka, Makoto Sueyoshi (Kyushu University)

11:30 - 11:50 Numerical Simulation of Liquid-Gas Two-Phase Flow Driven by a Rotating Body

Naruhiko Tan (Tokyo Institute of Technology)

11:50 - 12:00 **Closing Address by Changhong Hu (Kyushu University)**