

Program of
US-Japan Joint Workshop on Ship Hydrodynamics in Hiroshima-U.

Date: April 27th, 2023

Place: MIRAI-CREA, Hiroshima-U.

10:00 Opening remarks, (H. Yasukawa, HU)

10:10 Analysis of Measured Turning Trajectories in Regular Waves for Three KCS models (H. Yasukawa, HU)

10:40 Hydrodynamic forces and directional stability of a ship sailing in a canal. (M. Sano, HU)

11:10 Perspective on Automatic Berthing and Unberthing Control System (A. Maki, Osaka IU),

11:40-12:00 Lunch

13:00 Forces/Moment measurements for maneuvering in calm water and waves by Active Controlled Soil Spring Mount (Y. Sanada, K. Rosenblum, S. Park and F. Stern, IHR, U. Iowa)

13:30 Measurement of Spatial Pressure Distribution of a Ship Advancing in Waves and Estimation of Hydrodynamic Forces by Its Integration (H. Iwashita, HU; K. Suzuki, OU)

14:00 Stereo PIV measurements around various ship models in a wave basin (W. Naito, K. Kato, S. Katayama, N. Shimizu, T. Kobayashi and Y. Tada, Imabari Shipbuilding Co.)

14:30 4DPTV Measurements and DES of the Turbulence Structure and Vortex-Vortex Interaction for 5415 Series Dome Vortices (F. Stern, Y. Sanada, Z. Starman, S. Bhushan, C. Milano, IHR, U. Iowa)

15:00-15:30 Break

15:30 False-bottom effect for captive/dynamic PMM tests in shallow water (Sakamoto, N., NMRI)

16:00 Development of Remote and Autonomous Navigation Systems (A. Matsuda, JFREA; Yoshioka, H., Hashimoto, H., OMIU)

16:15 Data-Driven Approaches for Safe Navigation (Higaki, T., Hashimoto, H., OMIU)

Participants

name	affiliation	topic
Higaki, T.	D2, Osaka metropolitan university	Data-Driven Approaches for Safe Navigation
IHUMA, Kazuhiko	Osaka university	
Iwashita, H.	Hiroshima University	
Katayama, Shin	Imabari Shipbuilding Co.	
Katayama, T.	Osaka metropolitan university	Tank tests for investigation of planing craft performance
Lin, Woei-Min	ONR	
Maki, A.	Osaka university	Perspective on automatic berthing and unberthing control system
Matsuda, A.	Marine Dynamic Basin, JFREA	
Ohashi Kunitiide	NMRI	
Okuda, R.	D3, Hiroshima University	
PAL, Sumit Kumar	PD, Osaka university	Effect of springing and whipping on exceedance probability of vertical bending moment of a ship.
Sakamoto, N.	NMRI	False bottom effect for captive/dynamic PMM tests in shallow water
Sanada, Y.	IIHR, University of IOWA	Forces/Moment Measurements for Maneuvering in Calm Water and Waves by Active Controlled Soft Spring Mount
Sano, M.	Hiroshima University	Hydrodynamic forces and directional stability of a ship sailing in a canal
Stern, Fred	IIHR, University of IOWA	4DPTV Measurements and DES of the Turbulence Structure and Vortex-Vortex Interaction for S45, S30 and D20A Vortices
Suzuki, K.	D3, Osaka University	Measurement of Spatial Pressure Distribution of a Ship Advancing in Waves and Estimation of Hydrodynamic Forces by Its Integration
Toda, Y.	Imabari Shipbuilding Co.	Stereo PIV Measurement around Various Ship Models in Imabari Ship Model Basin
Yasukawa, H.	Hiroshima University	Analysis of Measured Turning Trajectories in Regular Waves for Three KCS models
Yoshioka, H.	D1, Osaka metropolitan university	Development of Remote and Autonomous Navigation Systems