

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 U.)

11:40-13:00 Lunch

13:00 Forces/Moment Measurements for Maneuvering in Calm Water and Waves by Active Controlled Soft Spring Mount (Y. Sanada, K. Rosenblum, S. Park and F. Stern, IIHR, 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 Measurement around Various Ship Models in Imabari Ship Model Basin (W. Narita, K. Kino, S. Katayama, N. Shimizu, T. Ikebuchi and Y. Toda, Imabari Shipbuilding Co.)

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

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

16:30 Tank tests for investigation of planning craft performance (T. Katayama, Osaka Metropolitan U.)

17:00 Effect of springing and whipping on exceedance probability of vertical bending moment of a ship (S. K. PAL, K. IJIMA, OU)

17:30 Closing remarks, (H. Yasukawa, HU)

19:00 Dinner party at Japanese restaurant near Saijo Station

## Participants

name	affiliation	topic
Higaki, T.	D2, Osaka metropolitan university	Data-Driven Approaches for Safe Navigation
IJIMA, Kazuhiro	Osaka university	
Iwashita, H.	Hiroshima University	
Katayama, Shun	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 Kunihide	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 5415 Sonar Dome 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