

HIGH SPEED MARINE VEHICLES

Naples, 23-25 October 2023



HSMV 2023 Programme at Glance





13th Symposium HIGH SPEED MARINE VEHICLES, Technical Programme

HSMV 2023	23 rd October	24 th October
9:00 - 9:30	Registration	SESSION 4: Experimental Hydrodynamics, chaired by Prof. Fabio De Luca <ul style="list-style-type: none"> • Pedisic Buca, Influence of Stern Trim Control Devices upon Resistance of High Speed Vessels • Keser et al., The Design, Production, Verification, and Calibration of an Elastic Model of a Catamaran for Hydroelastic Experiments • Wang et al., Development and Testing of a Free Running Model for Experimental Hydrodynamic Study of Planing Boat
9:30: 10:30	Opening Ceremony Keynotes	
10:30 - 11:00	Coffee Break	Coffee Break
11:00 – 12:30	SESSION 1: Planing Hydrodynamics, chaired by Prof. Ermina BEGOVIC <ul style="list-style-type: none"> • Garne, Warp Effects and Bow Submergence; over the Limit for a 2D+t Strip Model of HSC? • Bonci & De Jong, High-Speed RHIB Seakeeping Analysis Using Non-Linear Time Domain Simulations and Systematic Hull Parametrization • Bilandi et al., Stepped Hulls Early Stage Design by Implementing 2D+T Method • Bašić et al., Novel Approach for Simulating Planing Using Lagrangian CFD 	SESSION 5: Ship Design, chaired by Dr. Igor BACKALOV <ul style="list-style-type: none"> • Godø & Steen, A Comparative Study of the Energy Efficiency of Hydrofoil Vessels and Slender Catamarans • Coppola et al., Feasibility Study of a Zero-Emission Passenger Catamaran Ferry Operating in Italian Coastal Island • Coppola et al., Methanol and Fuel Cell for Cold Ironing Achieving Emission Reduction and Its Economic Assessment • Altunsaray et al., Ways of Weight Optimization for Polymer-Based Composite High-Speed Marine Vehicles
12:30 – 14:00	Lunch Break	Lunch Break
14:00 – 15:30	SESSION 2: Resistance and Manoeuvring of Fast Ships, chaired by Prof. Abbas DASHTIMANESH <ul style="list-style-type: none"> • Bozzo & Villa, A Fast Numerical Procedure to Design the Shaftline Struts • Mauro et al., Shallow Water Resistance Estimation for Semi-Displacement Slender Ships • Begovic et al., Determination of Hydrodynamic Maneuvering Coefficients of a Planing Hull Using CFD with the Aid of SDT • Ambrosino et al., Prediction of Manoeuvring Characteristics in the Concept Design of a Destroyer 	SESSION 6: Comfort on Board and Regulatory Framework, chaired by Prof. Karl GARME <ul style="list-style-type: none"> • Denise Peri, A Smart Materials Driven Approach to the Interior Design of Cruise Ships • Ilic & Backalov, Surf-Riding of Ships from the MARIN Series of Fast Displacement Ships • Begovic et al, Application of ISO 22834 for Comfort Assessment on a Large Yacht • De Alwis & Garne, Feasibility of Using Kidney-Belt-Mounted Accelerometers for Measuring Shock and Vibration Exerted on the Lumbar Spine Region of High-Speed Marine Craft Occupants
15:30 – 16:00	Coffee Break	Coffee Break
16:00 -17:30	SESSION 3: Marine Engines and Alternative Fuels, chaired by Prof. Vincenzo CRUPI <ul style="list-style-type: none"> • Ceglie et al, Employing Artificial Neural Network for Process Signal Estimation in the Monitoring of Smart Shipboard Diesel Engine Systems • Padolecchia et al., Feasibility Study for the Fuel Switch of a Fast Ferry • Zivieri et al., Magnetic Signature Analysis of the Propulsor of a Military Ship • Acanfora et al., A Methanol Fueled Marine Engine Simulator for Fast Craft Applications 	SESSION 7: Computational Fluid Dynamics, chaired by Prof. Simone MANCINI <ul style="list-style-type: none"> • Lau et al., Ride-Control Systems Geometries on a High-Speed Catamaran Using a CFD Forcing Function Method • Akinmulewo et al., Numerical Investigation of the Influence of the Axial Position of the Propeller on the Propulsion Performance and the Hull-Propeller Interaction Using the Body-Force-Method • Bilandi et al., How to Improve Full-Scale Self-Propulsion Simulations? A Case Study on a Semi-Displacement Hull • Eslamdoost & Vikström, Energy Balance Approach for Studying Waterjet-Hull Interaction Effects
	GROUP PHOTO	20:00 – Gala dinner at La Bersagliera 1919, Borgo Marinari, 10/11