

## **Monday 23rd October,**

**Centro Congressi Federico II, Via Partenope, 36, 80121 Napoli, Aula Magna**

**9:00 – 9:30 – Registration**

**9:30 -10:30 – Opening ceremony – Greeting and Welcome speech**

**10:30 – 11:00 - KEYNOTE 1**

**11:00 – 11:30 Coffee break**

**11:30 – 13:00 Session 1. Planing Hull Hydrodynamics**

1. Warp effects and bow submergence; over the limit for a 2D+t strip model of HSC?
2. High-speed RHIB seakeeping analysis using non-linear time domain simulations and systematic hull parametrization
3. Stepped Hulls Early Stage Design by Implementing 2D+T Method
4. Novel approach for simulating planing using Lagrangian CFD

**13:00 – 14:30 Lunch break**

**14:30 – 16:00 Session 2 – Resistance and manoeuvring of fast ships**

5. A Fast Numerical Procedure to Design the Shaftline Struts
6. Shallow water resistance estimation for semi-displacement slender ships
7. Determination of Hydrodynamic Manoeuvring Coefficients of a Planing Hull using CFD with the aid of SDT
8. Prediction of manoeuvring characteristics in the concept design of a destroyer

**16:00 – 16:30 Coffee break**

**16:30 – 18:00 Session 3 – Marine engines and alternative fuels**

9. Employing Artificial Neural Network for Process Signal Estimation in the Monitoring of Smart Shipboard Diesel Engine Systems
10. Feasibility study for the fuel switch of a fast ferry
11. Magnetic signature analysis of the propulsor of a military ship
12. A methanol fuelled marine engine simulator for fast craft applications

## **Tuesday 24<sup>th</sup> October,**

**Centro Congressi Federico II, Via Partenope, 36, 80121 Napoli**

**9:00 -9:30 – KEYNOTE 2**

**9:30 - 10:30 – Session 4 – Experimental Hydrodynamics**

13. Influence of Stern Trim Control Devices upon Resistance of High Speed Vessels

14. The design, production, verification, and calibration of an elastic model of a catamaran for hydroelastic experiments
15. Development and Testing of a Free Running Model for Experimental Hydrodynamic Study of Planing Boat

**10:30 - 11:00 – Coffee Break**

**11:00 – 12:30 - Session 5 – Design**

16. A Comparative Study of the Energy Efficiency of Hydrofoil Vessels and Slender Catamarans
17. Feasibility Study of a zero-emission Passenger Catamaran Ferry operating in Italian Coastal Island
18. Methanol and Fuel Cell for Cold Ironing Achieving Emission Reduction and Its Economic Assessment
19. Ways of Weight Optimization for Polymer-Based Composite High-Speed Marine Vehicles

**12:30 – 14:00 – Lunch Break**

**14:00 – 15:30 - Session 6 Comfort on board and regulatory framework**

20. A Smart Materials Driven Approach to the Interior Design of Cruise Ships
21. Surf-riding of ships from the MARIN series of fast displacement ships
22. Application of ISO 22834 for comfort assessment on a large yacht
23. 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**

**16:00 – 17:30 - Session 7 – CFD**

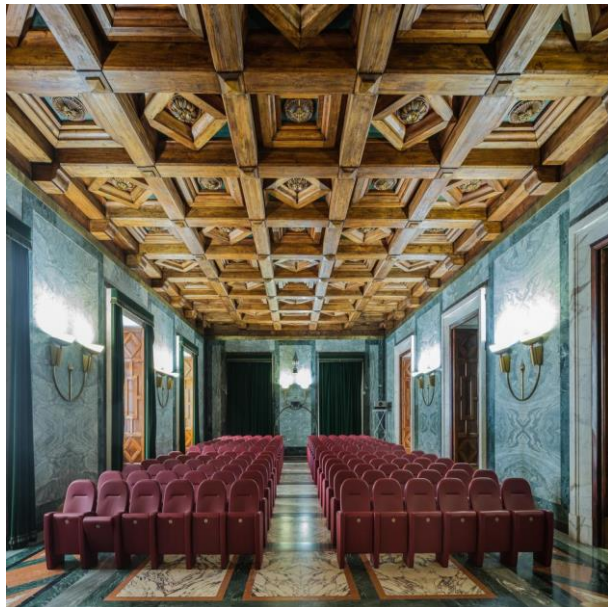
24. Ride-Control Systems Geometries on a High-Speed Catamaran using a CFD Forcing Function Method
25. Numerical Investigation of the Influence of the Axial Position of the Propeller on the Propulsion Performance and the Hull-Propeller Interaction using the Body-Force-Method
26. How to Improve Full-Scale Self-Propulsion Simulations? A Case Study on a Semi-Displacement Hull
27. Energy Balance Approach for Studying Waterjet-Hull Interaction Effects

**17:30 – 18:00 – Closing**

**20:00 – 23:00** – Galla Dinner at the Restaurant La Bersagliera 1919, Borgo Marinari, 10/11, 80132 Napoli NA



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**Aula Magna**



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