

Marine Technology Postgraduate Conference (MTPC)

Day 1 (Tuesday 16th April 2024, University of Southampton, Highfield Campus B58/1067 [Murray Building])

1030 - 1100 Registration/arrivals/refreshments (B58/1067 + Foyer)

1100 - 1130 Welcome Addresses

1130 - 1150 Industry Keynote Speaker

1150 - 1250 Session 1

Analysis of Carbon Footprint and Cost along the Maritime Logistics Chain: The Influencing Role of Ports and Short-sea Shipping

Achmad Mustakim

Quantitative sustainability assessment of freeports: Hybrid model evidence from the UK

Xinrui Liang

Route to 2050: breaking the barriers towards shipping decarbonisation

Panos Manias

1250 - 1400 Lunch (Garden Court)

1400 - 1420 Industry Keynote Speaker

1420 - 1540 Session 2

Digitised Dockyard: Using digital twins for multi-objective optimisation on a complex maritime site

Joseph Ross

UCL Marine Robotics Competition

Yanchao Wang

Robotic Welding in Marine Application

Sufian Imam Wahidi

Design of Passive Fault-Tolerant Augmented Neural Lyapunov Control Laws for Autonomous Maritime Vehicles

Davide Grande

1540 – 1710 Poster Session (& Technical Tours) (Garden Court)

Includes drinks and light refreshments

1900 Conference Dinner at Hartley Suite

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Day 2 (Wednesday 17th April 2024, University of Southampton, Highfield Campus B58/1067 [Murray Building])

0830 - 0900 Registration/arrivals/refreshments (B58/1067 + Foyer)

0900 - 0920 Industry Keynote Speaker

0920 - 1040 Session 3

Advanced Powertrain Design and Optimisation for Maritime Vessels

Jack Coathup

Measurement of Power Use in Vessels for Decarbonisation

Jack Shanahan

Methanol and hydrogen combustion in marine diesel engines

Panagiotis Karvounis

Clean powertrain retrofit solutions for workboats: A Case Study

Soroosh Kianmehr

1040 - 1100 Break (B58/1067 + Foyer)

1100 - 1200 Session 4

Low Frequency dynamic response prediction of floating offshore wind turbines

Edward Land

Performance sports engineering: improving knowledge on human underwater undulatory swimming

Izzy Thompson & Dorian Audot

Experimental investigation on Flow-Induced Vibration of Non-Circular Cylinders Under Turbulent Flows

Yan Naung Aye

1200 - 1300 Lunch (Garden Court)

1300 - 1320 Industry keynote 4 (B58/1067 + Foyer)

1320 - 1440 Session 5

Improving the reliability of ecosystem status metrics derived from seafloor images

Emma Curtis

Automatic Detection of Underwater Boulders from Side Scan Sonar using Machine Learning

Michal Motylinski

Lidar-based Floating Objects Detection on Maritime Environment for Autonomous Surface Vehicles

Yongchang Xie

Effect of a movable trailing edge flap on the performance of a crossflow turbine

Satyam Satyam

1440 - 1500 Break (B58/1067 + Foyer)

1500 - 1530 Closing address & prizes