



THE 26th SYMPOSIUM ON THEORY AND PRACTICE OF SHIPBUILDING

2024


Zadar, Croatia, 2 – 5 October 2024

PRELIMINARY PROGRAM

Last update: 26 September 2024

Wednesday, 2 October 2024		
Time	Event	Venue
14:00 – 17:00	Croatia Yacht Show (Yacht Viewings)	Zadar Cruise Port (Gaženica)
19:00 – 21:00	Welcome Gathering with Cocktail Dinner	Museum of Ancient Glass Zadar

Thursday, 3 October 2024		
Time	Event	Venue
08:00 – 09:00	Registrations	University of Zadar The Old Campus The Great Hall 📍 Obala kralja Petra Krešimira IV, 2, Zadar
09:00 – 09:30	Opening Ceremony with Welcome Speeches	
09:30 – 10:00	Invited Lecture (1) Oskar Levander (Kongsberg Maritime) How to Navigate the Upcoming Fuel Transition	
10:00 – 10:30	Invited Lecture (2) Sander Klaasse (Wärtsilä Voyage, Europe) Fleet Optimization Solutions and Marine Decarbonisation	
10:30 – 11:00	Invited Lecture (3) Zoran Kunkera (Leaera Ltd) Smart Strategies for the Improvement of the (European) Shipbuilding Industry Competitiveness	
11:00 – 11:30	Coffee Break	
11:30 – 12:45	Panel Discussion MARITIME DECARBONIZATION – FROM VISION TO REALITY Moderator: Siniša Reljić (Founder and ex-CEO of Navis Consult) Panellists: Oskar Levander (Kongsberg Maritime), Sander Klaasse (Wärtsilä Voyage, Europe), Joško Markov (Tankerska plovidba), Mladen Matak (Thome Croatia), Roko Vuletić (ISKRA Shipyard), Ivan Maslov (Brodosplit)	
13:00 – 14:00	Lunch Break	

Thursday, 3 October 2024				
Time	Event			Venue
14:30 – 15:00	Registrations			University of Zadar SEP Building Ground Floor Rooms 01-04 
15:00 – 16:40	Parallel Sessions (1-3)			
	Construction, Strength and Vibration of Vessels and Offshore Structures Room: 01, Chairs: S. Bertagna & N. Momčilović	Design of Vessels and Offshore Structures, Safety and Offshore Engineering (1) Room: 03, Chairs: L. Braidotti & B. Zima	Hydromechanics of Vessels and Offshore Structures (1) Room: 04, Chairs: J. Prpić-Oršić & A. Turk	
15:00 – 15:20	Comparative Analysis of the VWBM for Hull Girder Fatigue Assessment according to IACS Rec. No. 34 Rev 1 and 2 A. Mikulić, M. Ćorak, J. Parunov	Improving Survivability of Twin-screw Propeller Passenger Ship by Setting Central Bulkhead in Engine Room Compartment D. Ban, S.E. Blašković	A Numerical Investigation of the Wind and Air Resistance of the Containership for Different Loading Conditions and Speeds C.G. Grlj, N. Degiuli, Ž. Tuković, I. Martić	
15:20 – 15:40	Finite Element Analysis of an Unconventional Hull Designed for Aquafarming N. Momčilović, M. Kalajdžić, D. Antić	Concept Design of an Electric 100-passenger Ship V. Ostrovska, V. Slapničar, J. Andrišić, I. Lalović	Direct Calculation Approach for Marine Structures – Nonlinear Loads A. Bakica	
15:40 – 16:00	Efficiency Evaluation of Reduction Gearbox for Diesel Electric Ship Propulsion D. Pastorčić, I. Poljak, V. Mrzljak, V. Knežević	Updated Steel Weight Estimation for Cruise Ship Concept Design S. Utzeri, A. Marinò, L. Braidotti	Scale Resolving Simulation of Unsteady Bow Thruster Hydrodynamics M. Kazemi, N. Kornev	
16:00 – 16:20	Structural Design of Lifiable Car Carrier Deck Structure made of Steel and Aluminium J. Andrić, M. Petrak, M. Tomičić	Towards Cleaner Oceans and Ports: Developing an Eco-friendly Waste Collection Vessel A. Karczewski, E. Marcinkiewicz, H. Pruszek, M. Reichel	A Numerical Study on the Effect of Trim on the Total Resistance of a Container Ship Model in Confined Water I. Martić, N. Degiuli, B. Anušić, C.G. Grlj	
16:20 – 16:40	On the Structural Response of Innovative Plastic Materials for Boatbuilding Applications A. Marinò, N. Taucer Marchesi, S. Bertagna, V. Bucci	Structural Design of Composite Passenger Catamaran T. Dolšak, J. Andrić, T. Uroda, M. Tomičić	Marine Applications of Floating Solar Photovoltaic Systems I. Ćatipović, N. Alujević, I. Gatin, M. Matijević, A. Mikulić, D. Smoljan, K. Trontl	
16:40 – 17:10	Coffee Break			
17:10 – 18:50	Parallel Sessions (4-6)			
	Production and Maintenance of Vessels and Offshore Structures Room: 01, Chairs: N. Hadžić & M. Hadjina	Design of Vessels and Offshore Structures, Safety and Offshore Engineering (2) Room: 03, Chairs: V. Slapničar & B. Ljubenkov	Hydromechanics of Vessels and Offshore Structures (2) Room: 04, Chairs: N. Degiuli & I. Martić	
17:10 – 17:30	Framework for the Lifetime Extension of Fixed Offshore Platforms in the North Adriatic Sea D. Mimica, D. Skejić, I. Ćatipović, J. Parunov	Structural Design of River Floating Passenger Terminal J. Andrić, T. Uroda, M. Tomičić, D. Ćetković, K. Borčić	Advances in the Linearised Progressive Flooding Simulation Method L. Braidotti, J. Prpić-Oršić	
17:30 – 17:50	Hierarchical Modelling Approach for Ship Production Process N. Hadžić, T. Opetuk, V. Ložar	Hull-superstructure Interaction of Different Types of Modern Cruise Ships J. Andrić, D. Daničić, M. Tomičić	Statistical and Spectral Description of Full-scale Measurements of Ship Motion in Waves T. Petranović, M. Katalinić, H. Mihanović, J. Parunov	
17:50 – 18:10	Analysis and Modelling of the Ship Machinery Module I. Barić, R. Rubeša, M. Hadjina, T. Matulja	Feasibility Study on the Potential Using of Ferrocement for Constructing Floats B. Zima, A. Karczewski	Evaluating Roll Damping in Parametric Rolling: Challenges and Approaches A. Turk, I. Sulovsky, J. Prpić-Oršić, M. Balas	
18:10 – 18:30	Usage of ESAB Railtrac FW 1000 and ESAB TFD1 for Mechanized Welding First Phase of Dynalink Project R. Mimica, P. Perak, N.-N. Đurđević	Design and Production Technology of the Main Hydrofoil of the Moth-class Sailboat B. Ljubenkov, D. Fržop, L. Galić, M. Dević	CFD Self-propulsion Calculations by Double Body Models I. Sulovsky, J. Prpić-Oršić	
18:30 – 18:50	Reconstruction of Ships Outfitting Parts using Reverse Engineering Methods I. Željковиć, R. Mimica, T. Pribudić, D. Bazina, I. Trebotić	D3V-SGD: An Open-Source Program for the Design of Ship Grillage Structures P. Prebeg, G. Kos, D. Banjedvovec, T. Pavlović	-	

Friday, 4 October 2024				
Time	Event			Venue
08:30 – 09:00	Registrations			University of Zadar SEP Building Ground Floor Rooms 01-04 Ulica Šime Vitasovića 1, Zadar
09:00 – 10:40	Parallel Sessions (7-9)			
	Maritime Transportation, Environmentally Friendly Shipping, Safety of Navigation (1) Room: 01, Chairs: M. Kalajdžić & A.V. Dainelsen	Autonomous Surface Vessels, Underwater Systems and Marine Engineering Room: 03, Chairs: N. Vulić & A. Ljulj	Applications of Artificial Intelligence in Shipbuilding and Maritime Industry Room: 04, Chairs: J. Parunov & P. Kujala	
09:00 – 09:20	<i>Contribution of Wind Assisted Propulsion for a Liner Vessel on a Route in the Adriatic Sea</i> A. Čalić, M. Katalinić	<i>Practical, Resilient and Financial Aspects of an Automatic Barge</i> R. Müller, A. Van Coillie, W. Duhme	<i>Leveraging AI and Deep Learning Algorithms to Enhance Leisure Sailing Experiences</i> L. Pagani, P. Gemelli	
09:20 – 09:40	<i>Simulating Navigators' Behaviour under Stress: Development of the "Captain's Game"</i> K. Lange, H.-W. Kurth, T. Krogmann	<i>Study on the Development and Quality Validation of S-100-based MASS Hydrographic Information</i> H.S. Na, Y.S. Choi, D.U. Kim, S.R. Lee, M.S. Kim	<i>Adaptive Neuro-Fuzzy Inference System for the Estimation of Brake Power and Rate of Revolution</i> M. Valčić, I. Martić, N. Degiuli, C.G. Grlj	
09:40 – 10:00	<i>A Proposal for Amendments to Annexes I and II of the EU Ship Recycling Regulation</i> J. Čulin, V. Knežević, J. Orović, Z. Pavin	<i>Proliferation of Unmanned Aerial and Maritime Vehicles in Military Operations</i> A. Ljulj, V. Slapničar	<i>A Fuzzy Set Perspective on COLREG</i> M. Kristić, T. Biočić, M. Car, N. Hasanspahić	
10:00 – 10:20	<i>Advancing CFD Validation Methods for Self-Propelled Inland Waterway Vessels: A Workshop Initiative</i> M. Kalajdžić, I. Ivković, M. Vasilev	<i>Marine Propeller Shaft Dimensions: Proposal to Extend the IACS UR M68 Formula to Alloy Steels</i> L. Roldo, N. Vulić	<i>Emerging Stochastic Methods for Weather-Aware Ship Routing</i> M. Balas, J. Prpić-Oršić, M. Valčić	
10:20 – 10:40	<i>Determining Port Wind Limiting Conditions for Safe Manoeuvring and Berthing</i> M. Barić, I. Toman, N. Kostović	<i>Exploring Historical Maritime Cyber-attacks and Introducing Maritime Security Operations Centre as a Solution to Mitigate them</i> A. Nasr, R. Leiger, I. Zaitseva-Pärnaste, P. Kujala	<i>Enhancing Sailing Yacht Design through Machine Learning: Application of Gaussian Process Regression to Predict Bare Hull Resistance</i> L. Pagani, P. Gemelli	
10:40 – 11:30	<i>Coffee Break with Projects Dissemination (Poster Session)</i> Room: Hall area (Ground Floor)			
	<i>Sustainable Slow Steaming for Low Carbon Shipping (STARSHIP)</i> N. Degiuli, I. Martić, C.G. Grlj	<i>DIH InnovaMare Project: Fostering Collaborative Innovation and Sustainable Solutions for the Blue Economy in the Adriatic Region</i> A. Gundić, M. Valčić, M. Ivanac	<i>Applying the Entrepreneurial Discovery Process to foster Innovation and Skills in the Blue Economy: Insights from the MareSkill Project</i> A. Gundić, T. Radić Lakoš, F. Urem	
	<i>REliability and Uncertainty of Ship decision support system for safe and greener navigation (REBUS)</i> J. Prpić-Oršić, M. Balas, I. Sulovsky, M. Valčić	<i>Enhancing Seafarer Education: Insights from the MICROMET Project</i> A. Gundić, A. Zekić	<i>E-learning Platforms Usage at Maritime Higher Education and Training Institutions</i> L. Marfat, A. Gundić, A. Ćurković, T. Mavra	
11:30 – 12:50	<i>Technical-Commercial Presentations (Special Session)</i> Room: 01, Chair: M. Valčić			
11:30 – 11:50	Sander Klaasse (<i>Wärtsilä Voyage, Europe</i>)			
11:50 – 12:10	Joško Markov (<i>Tankerska plovidba</i>)			
12:10 – 12:30	Lukša Radić (<i>Navis Consult, a Kongsberg company</i>) – Valter Kurilić (<i>Rapska plovidba</i>)			
12:30 – 12:50	Roko Vuletić (<i>ISKRA Shipyard</i>)			
13:00 – 14:00	Lunch Break			TBA

Friday, 4 October 2024				
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14:30 – 15:00	Registrations			University of Zadar SEP Building Ground floor Rooms 01-04 Ulica Šime Vitasovića 1, Zadar
15:00 – 16:40	Parallel Sessions (10-12)			
	Education and Training in Shipbuilding and Maritime Industry Room: 01, Chairs: A. Gundić & M. Pijaca	Maritime Transportation, Environmentally Friendly Shipping, Safety of Navigation (2) Room: 03, Chairs: J. Orović & J. Čulin	Maritime Economics, Logistics and Law Room: 04, Chairs: M. Barić & Š. Vučetić	
15:00 – 15:20	Technology Evaluation of Augmented and Mixed Reality Systems in Shipbuilding Processes: Preliminary Report R. Mimica, I. Željko, V. Settler, N. Köster, A. Gąsior, M. Neufeld	Application of the AHP Method in the Decision-Making Process Regarding the Establishment of Activities in Coastal Areas A. Zekić, D. Županović, L. Grbić, T. Mavra	Navigating Economic Crises: Operational Efficiency and Firm Performance of Shipyards and Supplier Firms in a Maritime Cluster A.V. Dainelsen, V. Koilo	
15:20 – 15:40	The Importance of Implementing the Practice of Maritime Company Branding as a Preferred Employer on the Example of the Maritime Labor Market Š. Vučetić, L. Grbić, M. Šundov, M. Barić	Solar Potential for Emission Reduction in Maritime Transport: The Adriatic Sea Case Study A. Mikulić, I. Čatipović, K. Trontl, D. Smoljan, M. Matijević	Historia est Magistra Vitae Hvar Naval Arsenal – Building, Repair and Maintenance of the Patrol Police Gallies of the Eastern Adriatic Towns-communes under the Authority of Venice N. Lokošek, F. Štefić	
15:40 – 16:00	Advanced Integrated CFD-VR Model of Ship Main Engine Fuel Line Fire D. Ogrizović, D. Glujić, D. Bernečić, G. Vizentin, G. Vukelić	Comparative Analysis of Alternative Fuels for Environmentally friendly Liner Passenger Ships M. Novaselić, M. Valčić, J. Orović	Benchmarking Study of Nigeria's Ship building Capabilities applying Porter's Diamond Model C. Onyemechi, A. Sule, C. Igboanusi	
16:00 – 16:20	SIRE 2.0 - Integration of Human Factors into the Tanker Inspection Program V. Pavić, M. Barić, L. Grbić, I. Mišlov	Eye Tracking Technology in Maritime Navigation – Applications and Benefits I. Mišlov, M. Barić, V. Pavić, L. Grbić	The 'Regia Nave Puglia' around the World (1898-1923) B. Cianci	
16:20 – 16:40	-	Protection of the Underwater Part of the Ship's Hull with Antifouling Coatings I. Stojanović, I. Fatović, J. Rukavina, M. Kurtela, V. Alar	-	
16:00 – 17:00	Meeting of the SORTA Standing Committee (Closed Session) Room: 02			
16:40 – 17:00	Coffee Break			
17:00 – 17:30	Closing Ceremony Room: 01			
19:30 – 23:45	Symposium Dinner Butler Gourmet & Cocktails Garden, Obala kralja Tomislava 1, Zadar			Butler, Zadar

Saturday, 5 October 2024				
Time	Event			Venue
08:00 – 17:30	Symposium Excursion with Lunch National Park Kornati and Nature Park Telašćica with the ship Sv. Šime II*			Branimirova obala

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* if the weather conditions are favourable

Supporting organizations

