

# Editorial



Dear Readers,

Naše more, International Journal of Maritime Science & Technology "Our Sea", entered a new century of its existence. It has been a long and turbulent period during which our journal has transformed from a professional to a scientific journal, looking forward to being accepted within the group of the best publications with maritime themes in this part of the world. Also, there are just a few specialised journals on seafaring worldwide, published for such a long period and our publication may be considered to be both our maritime and cultural heritage.

The third issue in 2021 contains 8 papers. The first one is the original scientific paper by Croatian authors: Svjetlana Bobanović-Čolić, Jakša Bolotin, Nikša Glavić and Enis Hrustić. The paper is titled: Microbiological Quality of Seawater and Mussels (*Mytilus galloprovincialis*, Lamarck 1819) in the Dubrovnik Coastal Area (Southeastern Adriatic). This is the first intensive study conducted on the water and mussel quality of the coastal area of Dubrovnik. This study shows that it is important to note that microbial contamination has often been detected in mussels.

The second paper is a preliminary communication by Croatian authors: Zoran Veljačić and Krešimir Grilec. The paper is titled: Increasing the Wear Resistance of Marine Diesel Engines Elements Made of Ductile Iron. This paper examines the influence of austempering and shot peening on the wear resistance of ductile iron. Samples for further testing were made from mechanically processed casts.

The third paper is a preliminary communication by Slovenian authors: Gašper Grm and Aleksander Grm. The paper is titled: Testing the Functionality and Applicability of Smart Devices for a Handheld Celestial Navigation System. The authors try to answer the question: "Can smart devices be used in celestial navigation as a measurement device to measure the orientation angles of celestial bodies?" This is their primary hypothesis. They elaborate the answer "yes".

The fourth paper is a preliminary communication by Polish authors: Stanisław Milewski, Bogdan Szturomski and Radosław Kiciński. The paper is titled: Strength Analysis of the Marine Weapon's Construction. The authors try to present and harmonize the requirements for naval military structures. The lack of experimental verification of newly built systems was indicated. Therefore the finite element method was used to determine the durability of the critical design elements.

The fifth paper is a preliminary communication by Indonesian authors: Ahmad Fauzan Zakki, Deddy Chrismianto, Aulia Windyandari and Rizaldy Ilham. The paper is titled: On the Development of Catamaran Hull Form for Fish Processing Vessel to Support Domestic Fishing Activities in Indonesia. This research focuses on developing a catamaran hull form for the fish processing vessel hull. The initial stage is determining the principal dimension and exploring the configurations of catamaran hull forms. The existing high-speed craft catamarans have been adopted to determine the parent model main dimensions using a linear regression equation model.

The sixth paper is the last preliminary communication in this issue by author from Montenegro Senka Šekularac – Ivošević. The paper

is titled: Fostering Maritime Innovations Through Human Capital: Exploring the Status Quo of the Adriatic Universities. The purpose of the paper is to emphasize the need for enhancing participation of the Adriatic maritime universities and researchers in modern innovation processes in maritime industry. The paper primarily analyses human capital in regard to two constituent components - academic (academic rank and the length of research experience) and collaborative (expertise in innovation projects, the frequency of participation, the constraints related to partnerships and funds).

The seventh paper is a scientific review by Polish author Piotr Kamil Korlak. The paper is titled: Analysis of Operational Efficiency of the Proposed Propulsion Systems for Selected Large RoPax Vessel. This paper presents the characteristics of ferry shipping with particular emphasis on large RoPax vessels operating in the Baltic Sea. A critical review of main propulsion system used on large RoPax ferries has been done.

The eighth paper is a scientific review by Slovak authors: Andrea Galieriková, Matúš Materna and Andrej Dávid. The paper is titled: Unlawful Acts in Maritime Transport & Civil Aviation. This paper provides a comprehensive analysis and comparison of the most serious types of unlawful acts (terrorism and piracy) regarding the legislative and jurisdiction. For the sake of comparability of legal phenomena, special attention is paid to illegal acts at sea and in the airspace above the sea.

In third issue we traditionally publish Supplement with professional papers. The first one is a professional paper by Latvian authors: Kristine Carjova, Mukharbiy Banov, Leonids Vinogradovs, Guntis Strautmanis and Ineta Irbe. The paper is titled: Acoustic Emission Leak Detection on a Technological Pipeline.

The second paper in Supplement is a professional paper in Croatian language by Croatian author Bruno Orešković. The paper is titled: Mjerenje protoka plina na platformi Ivana A (Gas flow measurement on the Ivan A platform). The aim of this article is to process the flow measurement method using the pressure drop (dP) method currently used on INA's Ivan A platform and to present test reports from the platform. The article discusses the mechanical components that need to be installed, the instruments used in the measurement as well as through the control systems (DCS or SCADA) on which the measured values are processed and shows the unit gas flow.

Besides our publisher, The University of Dubrovnik, the journal is considerably supported by The Ministry of Science and Education of the Republic of Croatia. In addition to the support provided by The Ministry and our Editor, our sponsors are especially important, Atlantska plovidba being our longest continuous sponsor. Recently, Society of Friends of Dubrovnik Antiquities, Tourist Board of the City of Dubrovnik, Dubrovnik-Neretva County, Dubrovnik Airport and others have become our partners.

We are especially grateful for all the support and co-operation, and above all, for the constructive comments, suggestions and remarks that will help us sail full speed ahead in future.

Yours sincerely,

Srećko Krile  
Editor-in-Chief