



PRESS RELEASE

XV Edition of the Student Naval Architect Award: d'Amico Group and the Royal Institution of Naval Architects award Angelo Arena

The prestigious award was presented to the new naval engineering graduate of the University of Genoa for his thesis that aims to implement a hybrid method for calculating the radar cross-section of complex structures in a ceremony at Villa Cambiaso

25 September 2023 – Today, the **Royal Institution of Naval Architects** - an international professional society of naval engineers founded in London in 1860 - and the **d'Amico Group** presented the **RINA-d'Amico Student Naval Architect Award** to **Angelo Arena**, a recent graduate in naval engineering at the University of Genoa.

The **Student Naval Architect Award** is awarded by the **Royal Institution of Naval Architects** at more than 30 universities worldwide, including the historic **University of Genoa**, selected for its **time-honoured tradition and collaboration with the naval industry**.

Angelo Arena received the Prize for his thesis entitled *“Implementation of a time domain method for calculating the radar cross-section of naval structures through hybrid simulation techniques”*, a paper which aims to implement a hybrid method for calculating the radar cross-section of complex structures; this parameter is fundamental for defining the detectability of a marine vessel through radar systems. More specifically, the Finite Volume Time Domain (FVTD) method, a technique belonging to the full wave category, and the Time Domain Physical Optics (TDPO) method, an asymptotic technique, were combined after developing and validating the code of the TDPO method in the same programming language as the FVTD method in the presence of canonical objects and simplified naval structures.

At the same event, **UNIGE** also awarded the **Royal Institution of Naval Architects - Ian Telfer Prize** to **Ahmed Gamal Hamed Elkafas** for his paper *“Assessment of Technical and Environmental Performance of Marine Alternative Fuels for Container Ships”*. The **Ian Telfer Prize**, in memory of the institution's renowned member, is awarded for the best paper on energy and the environment published by authors under the age of 35.

The ceremony was held at Villa Cambiaso, historic noble residence of the Municipality of Genoa and home to the University of Genoa's Polytechnic School, and was attended by Giorgio Roth, Dean of the Polytechnic School of the University of Genoa, Prof. Michele Viviani Director of the DITEN department and Prof. Paola Gualeni both from the University of Genoa, by Mr. Giuseppe Gigantesco, Director, Professional Affairs and Mr. Maurizio d'Amico Member of the Board of the Trustees both from the Royal Institution of Naval Architects and by Mr. Lorenzo d'Amico, d'Amico Group Insurance Director along with all the master's course students enrolled in recent years.



The d'Amico Group's longstanding support for maritime universities is aimed at building the future of shipping, together with highly trained young students and internationally renowned institutions. With a view to promoting and encouraging the exchange of technical and scientific information in the context of ship

design and construction, over time the Group has consolidated its collaboration with the **Royal Institution of Naval Architects**, an international professional society of naval engineers founded in London in 1860, and the **Naval Architecture Department (DITEN) at the University of Genoa**.

During the event, RINA's Director of Professional Affairs, Giuseppe Gigantesco discussed the future challenges facing naval architecture and the changes that are reshaping the naval industry in an era characterised by rapid technological progress and unprecedented environmental challenges. These include the urgent need to reduce the environmental impact of maritime transport since the shipping sector is a major contributor to global greenhouse gas emissions, the advent of digitalisation to improve safety, optimise performance and simplify operations, and the emergence of new trade routes.

*"The Royal Institution of Naval Architects would like to thank the University of Genoa's Naval Engineering Faculty for the warm welcome and invitation to attend this year's awards ceremony," stated **Chris Boyd, Chief Executive Officer of the Royal Institution of Naval Architects**. "This prestigious prize is a major accolade for many students which awards the results achieved and recognises the highest standards of performance. The trilateral relationship between the Institution, the d'Amico Group and the University of Genoa creates a dynamic ecosystem in which the academic world, sector institutions and industry operators collaborate to advance knowledge, innovation, and best applications in the field of marine engineering and the naval industry. By working together, we contribute to the development of qualified professionals, cutting-edge research and sustainable solutions that benefit the industry. We are proud to have presented the RINA-d'Amico Naval Architect Award to Angelo Arena. It was very interesting to share our future vision and discuss the future challenges facing our sector with a specific focus on the topic of sustainability and digitalisation."*

*"We are proud to be founders of this prestigious award and to continue supporting, along with our partners, the prize which for years has aimed to recognise the merit and talent of new naval engineers from the University of Genoa. The d'Amico Group has always actively promoted training courses that build the foundations of what will be their professional experience in the shipping sector with interest and passion. We would like to extend our warmest congratulations to Angelo Arena, who addressed a topic of vital importance for defining the detectability of marine vessels through radar systems with his thesis", commented the management of **d'Amico Società di Navigazione**.*



d'Amico Group Profile

d'Amico Società di Navigazione S.p.A. is the holding company of a global leading group in naval shipping, active in the dry cargo and tankers sectors and in the provision of services that are instrumental to naval activities. The d'Amico Group has a long and historical family entrepreneurial tradition dating back to 1936, developing its position on the global market over the years, with offices in the most important merchant shipping ports.

The d'Amico Group is committed to being at the forefront of supporting training projects, cooperating with education and academic institutions. Education and professional development of its human resources, who are constantly encouraged towards professional growth, are among the most important values for the d'Amico Group. Furthermore, through funding various educational projects at various levels, the company assists students in accessing opportunities to begin a successful career and pursue their chosen field.

Royal Institution of Naval Architects Profile

Founded in 1860 in London to “advance the art and science of ship design” today the Royal Institution of Naval Architects is a world renowned and highly respected international professional institution and learned society whose members are involved at all levels in the design, construction, maintenance and operation of all marine vessels and structures. The Institution has members in over ninety countries, and is widely represented in industry, universities and colleges, and maritime organisations worldwide.

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