

16-17-18th of May, 2024

# HIMAT-24

“International  
Symposium on The  
History of Maritime  
Technology” Program



## ORGANIZERS



Tokyo University of Marine Science and Technology,  
and Piri Reis University, with cooperation of Research  
Salon for History of Maritime Technology in Japan and  
Maritime History Research Center of Piri Reis  
University in Türkiye

## SUPPORTERS



*100th Anniversary of Diplomatic Relations Between Japan and Türkiye*

# “International Symposium on The History of Maritime Technology” Program

 <div style="text-align: center;"> <h2 style="color: blue;">HIMAT-24</h2> <h3 style="color: blue;">May 16, 2024</h3> <p>Piri Reis University Sea Campus, B Block (Program Presenter: Dilara Narin)</p> </div> 		
<b>09:00-09:30</b>	<b>Registration</b>	
<b>09:30-09:45</b>	<b>Opening Ceremony;</b> Performer :.....	
<b>09:45-10:35</b>	<b>Welcome Speeches and Exchange of the Messages and Plaques Between Japan and Türkiye</b>	
<b>09:45-10:35</b>	<b>09:45-10:15</b>	<b>Protocol Speeches</b>
	<b>10:15-10:25</b>	<b>Prof. Kuniaki SHOJI (Conference Co-Chairman)</b>
	<b>10:25-10:35</b>	<b>Exchange of the Messages and the Plaques Between Japan and Türkiye (Prof. Kuniaki SHOJI and Prof. Nafiz ARICA)</b>
<b>KEYNOTE SPEAKER</b> <b>(Rıdvan Kartal Conference Hall)</b>		
<b>Prof. Shogo HAYASHI</b>		
<b>10:35-11:05</b>	<b>From Sundials to Atomic Clocks: The Evolution of Timekeeping that Broadened the World</b>	
<b>KEYNOTE SPEAKER</b> <b>(Rıdvan Kartal Conference Hall)</b>		
<b>Prof. İdris BOSTAN</b>		
<b>11:05-11:35</b>	<b>Ottoman Shipyards</b>	
<b>11:35-11:50</b>	<b>Coffee Break</b>	

<b>11:50-13:00</b>	<b>First Session HISTORY OF MARITIME NAVIGATION (Rıdvan Kartal Conference Hall)</b>	
<b>11:50-13:00</b>	<b>Session Chair: Prof. Kuniaki SHOJI</b>	
	<b>Prof. Yoshiaki KUNIEDA (Online)</b>	<b>Sailing Performance of Tall Ships</b>
	<b>Prof. Shogo HAYASHI</b>	<b>Navigation Technology of the Future: How Far Have We Come Since 40 Years Ago, and What Lies Ahead?</b>
	<b>Asst. Prof. Sinan KARAKURT</b>	<b>Navigating History: Bibliometric Analysis of Maritime Technology Evolution</b>
<b>13:00-14:00</b>	<b>Lunch</b>	
<b>14:00-15:30</b>	<b>Second Session HISTORY OF SUBMARINE CONSTRUCTION (Seminar A)</b>	
<b>14:00-15:30</b>	<b>Session Chair: Asst. Prof. Nazmi ÇEŞMECİ</b>	
	<b>Asst. Prof John LITTLEFIELD</b>	<b>The American Civil War Era "David" Semi-submersible Torpedo Boat and its İlk</b>
	<b>Rear Admiral (Ret.) Prof. Nurhan KÂHYAOĞLU</b>	<b>WH (What, Where, When, Who, Why, How) Questions and Answers for MILDEN</b>
	<b>Asst. Prof. Münir Cansın ÖZDEN</b>	<b>Milestones in Submarine Design</b>
	<b>Assoc. Prof. Betül SARAÇ &amp; Research Assist. Aleyna ULUCUTSOY</b>	<b>Supercavitation Torpedoes</b>
<b>14:00-15:30</b>	<b>Third Session HISTORY OF MARITIME NAVIGATION (Seminar B)</b>	
<b>14:00-15:30</b>	<b>Session Chair: Prof. Recep YÜCEL</b>	
	<b>Prof. Tuncay ZORLU &amp; Asst. Prof. Sinan TEKİN</b>	<b>John Harrison's Chronometers for Finding Longitude at Sea and Its Replacement of Nevil Maskelyne's Lunar-Distance Method</b>
	<b>Asst. Prof. Yasemin NEMLİOĞLU</b>	<b>Ship and Navigation Technology in Kitab-1 Bahriye</b>
<b>15:30-16:00</b>	<b>Coffee Break</b>	

<b>16:00-17:30</b>	<b>Fourth Session HISTORY OF SHIPYARDS AND SHIPBUILDING (Seminar A)</b>	
<b>16:00-17:30</b>	Session Chair: Rear Admiral (Ret.) Prof. Nurhan KÂHYAOĞLU	
	Asst. Prof. Li MINGYANG	How Did China Independently Build Its First 10,000-ton-class Ship?
	Rear Admiral R. Erdinç YETKİN	Global Technology and National Solution: The History of Istanbul Naval Shipyard and its Role in the Shipbuilding Sector
<b>16:00-17:30</b>	<b>Fifth Session MISCELLANEOUS MARITIME HISTORY (Seminar B)</b>	
<b>16:00-17:30</b>	Session Chair: Prof. Shogo HAYASHI	
	Prof. Şenay ÖZDEMİR GÜMÜŞ	Divers and Employment Areas in Ottoman Maritime Affairs
	Prof. Kuniaki SHOJI	Lowering Lifeboats and Saving Lives in Case of a Ship's Disaster
	Prof. Zurab BEZHANOVI & Prof. Mzia DIASAMIDZE	History and Development of Georgian Maritime Education and Training
	Mr. Selçuk KOLAY	Locating and the Future of AE2
<b>18:00-19:30</b>	<b>Welcome Dinner</b>	



# HIMAT-24

## May 17, 2024

Piri Reis University Sea Campus, B Block  
(Program Presenter: Dilara Narin)



**KEYNOTE SPEAKER**  
(Rıdvan Kartal Conference Hall)

**Prof. İsmail HELVACIOĞLU**

09.30-10:15	Prof. İsmail HELVACIOĞLU	Key Contributions of Japan in Shipbuilding After the World War II
	Asst. Prof. Saim Turgut KOÇAK	
10:15-11:00	<b>Sixth Session-Part I</b> <b>HISTORY OF MARINE ENGINEERING</b> (Rıdvan Kartal Conference Hall)	
10.15-11:00	Session Chair: Prof. Seigo HASHIMOTO	
	Prof. Yutaka EMI (Online)	Marine Engineers' Tasks and Technology in Engine Room Seen from Historical Perspective
	Prof. Seigo HASHIMOTO	Key Innovations on Diesel Engine and Monitoring System in the 20th Century
11:00-11:20	Coffee Break	
11:20-12:00	<b>Sixth Session-Part II</b> <b>HISTORY OF MARINE ENGINEERING</b> (Rıdvan Kartal Conference Hall)	
11.20-12:00	Session Chair: Prof. Seigo HASHIMOTO	
	Asst. Prof. Nazmi ÇEŞMECİ	Historical Development of Greenhouse Gas (GHG) Emissions in Shipping Industry and Future Perspective
	Prof. Takashi MIWA	A Review of Technology Transitions for the Next Generation of Maritime Education
12:00-13:00	Visiting the Simulators	
13:00-14:00	Lunch	

<b>14:00-15:30</b>	<b>Seventh Session HISTORY OF SHIPYARDS AND SHIP BUILDING (Seminar A)</b>	
<b>14:00-15:30</b>	<b>Session Chair: Prof. Adam WEINTRIT</b>	
	<b>Asst. Prof. Evren MERCAN</b>	<b>Forgoing the Path to MILGEM: The Building of TCG BERK and TCG PEYK</b>
	<b>Asst. Prof. Bruno CIANCI</b>	<b>R.N. Puglia: A Regioni-Class Protected Cruiser Around the World (1898-1923)</b>
	<b>Prof. Ali Fuat ÖRENÇ</b>	<b>Innovations and Transformation in the Ottoman Navy During the Reign of Sultan Mahmud II (1808-1839)</b>
<b>14:00-15:30</b>	<b>Eight Session MISCELLANEOUS MARITIME HISTORY (Seminar B)</b>	
<b>14:00-15:30</b>	<b>Session Chair: Prof. Ergün DEMİREL</b>	
	<b>Assoc. Prof. Capt. Yogesh Chandralal SHAH (Online)</b>	<b>Navigating the Tides of Time: A Historical Odyssey of Maritime Technology</b>
	<b>Prof. Ali DENİZLİ and Prof. Recep YÜCEL</b>	<b>Innovative and Creative Technologies Used by Ukraine in Maritime Based on Maritime History</b>
	<b>Res. Asst. Bahri ÖZEL</b>	<b>Timekeeping in the Ottoman Fleet's Mediterranean Logbook, 1775-1779</b>
	<b>PhD. Ayşe GAZİHAN</b>	<b>Navigating Through Time: History of Modelling and Simulation in Maritime</b>
<b>15:30-15:50</b>	<b>Coffee Break</b>	
<b>15:50-17:30</b>	<b>Ninth Session MISCELLANEOUS MARITIME HISTORY (Rıdvan Kartal Conference Hall)</b>	
<b>15:50-17:30</b>	<b>Session Chair: Prof. Funda YARCAN</b>	
	<b>Prof. Adam WEINTRIT</b>	<b>A Brief Review of the History of Marine Navigation Charts from Ancient Times to the Present Day</b>
	<b>Asst. Prof. Oleksii (Alexey) DROZHZHYN and Asst. Prof. L. ZABORSKYI (Online)</b>	<b>The "Liner Shipping": Definition Development in a Historical Context</b>
	<b>Mr. Gökhan KARAKAŞ</b>	<b>Atatürk's Ships</b>
	<b>Asst. Prof. Kiraz PERİNÇEK KARAVİT</b>	<b>Maritime Aspirations Near the Eurasian Pole of Inaccessibility: Cave of the Seafarers (ca.500)</b>
<b>17:30-17:45</b>	<b>Closing Remarks Conference Chairman Admiral (Ret.) Metin ATAÇ</b>	



# HIMAT-24 May 18, 2024



FREE TIME