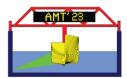


The 7<sup>th</sup> International Conference on Advanced Model Measurement Technology for the Maritime Industry (AMT'23)



## AMT'23 Conference Programme 24-26 October 2023, Istanbul, Turkey

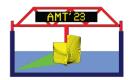
	(Day 1) 24th o	of October 2023
Time	Events & Locations	
8:00-9:00	Registry & Coffee/Tea (SDKM - Reception Hall)	
9:00-9:15	<b>Opening Ceremony:</b> Welcome speeches Chair: TBC (SDKM - Conference Hall)	
9:15-10:00	KEYNOTE PRESENTATION - About the Importance of Ship Scale Trials for Maritime Research and Development Dr Dmitry Ponkratov, JoRES Project Coordinator, UK Chair: TBC (SDKM - Conference Hall)	
10:00-10:30	Refreshments (SDKM - Reception Hall)	
10:30-11:45	Session 1A - SMART WAVE MEASUREMENT TECHNOLOGIES Chair: TBC (SDKM - Conference Hall)	Session 1B - PIV TECHNOLOGY APPLICATIONS IN MODEL TESTS Chair: TBC (SDKM - Senate Room)
10:30-10:55	PAPER 22 - Highly resolving airborne ultrasonic 3D wave measurements with multiple fully synchronized controllers featuring a high number of sensors Schümann, M. et al., General Acoustics, e.K, Kiel, Germany	PAPER 20 - Non-intrusive pressure and load determination in a towing tank from PIV measurements on a hydrofoil Jacobi, G., Delft University of Technology, The Netherlands
10:55-11:20	PAPER 1 - Measurement quality of airborne ultrasonic wave measurement technology <i>Tukker J. et al, MARIN, Wageningen, Netherland</i> s	PAPER 18 -The three-dimensional flows around tip-vortex cavities in the wake of a ship propeller Perçin, O.B. et al., Middle East Technical Uni., Ankara, Turkey



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11:20-11:45	PAPER 14 - Three-Dimensional Measurement of Surface Disturbances in Kelvin Wake Using Stereo-vision Principle Zhao, G. et al., The University of Strathclyde, Glasgow, UK	PAPER 5 - On the applicability of the tomographic reconstruction technique for measurements of multiphase flows during sloshing model tests <i>Tödter, S. et al., University of Duisburg-Essen, Institute of Ship</i> <i>Technology, Germany</i>
11:45-13:15	Lunch (SDKM - Reception Hall)	
13:15-14:55	Session 2A - UNDERWATER RADIATED NOISE - SMART MITIGATION AND MEASUREMENT TECHNOLOGIES Chair: TBC (SDKM - Conference Hall)	Session 2B - SPECIAL FLOW CHANNEL FACILITIES FOR DRAG AND MULTI-PHASE FLOW INVESTIGATIONS Chair: TBC (SDKM - Senate Room)
13:15-13:40	PAPER 7 - Scale model measurements of ship machinery noise mitigation by air injection Lloyd, T. et al., MARIN, Wageningen, The Netherlands.	PAPER 12 - Performance evaluation of marine coatings in steady-state numerical simulations based on the experimental channel-flow setup <i>Midjiyawa, Z. et al., Jotun A/S, Sandefjord, Norway</i>
13:40-14:05	PAPER 25 - Measuring air bubble layer characteristics around the hull of a ship model <i>Klinkenberg, Y. et al., MARIN, Wageningen, The Netherland</i> s	PAPER 41 - An Experimental Method to Predict Drag Reduction Performance of Dimpled Plates in a Fully Turbulent Channel Flow Ilter, K.Y. et al., Istanbul Technical University, Turkey.
14:05-14:30	PAPER 36 - A Novel Underwater Radiated Noise Measurement Method Using a Waterproof Aerial Drone with Hydrophone: ""HyDrone" Fitzsimmons, P. et al., The University of Strathclyde, Glasgow, UK.	PAPER 21 - The Multi-Phase Flow Tunnel of Delft University of Technology - design considerations and preliminary flow characterization <i>Fiscaletti, D. et al., Delft University of Technology, The</i> <i>Netherlands</i>
14:30-14:55	PAPER 8 - An experimental study on the dynamic flow of flooded water for a damaged ship in waves Bowker, J et al., QinetiQ, Haslar Marine Technology Park, Gosport, UK.	PAPER 9 - Characterization of bubble layer lubrication mechanism by means of Bubble Image Velocimetry Henry, P-Y. et al., SINTEF Ocean, Trondheim, Norway
14:55-15:30	<b>Refre</b> s (SDKM - Re	shments ception Hall)





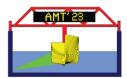
15:30-17:10	Session 3A - UNCERTAINITIES IN MODEL AND FULL- SCALE TESTS Chair: TBC (SDKM - Conference Hall)	Session 3B - FURTHER PIV TECHNOLOGY APPLICATIONS & MISCELLENOUS MODEL TESTS USING SMART MATERIALS Chair: TBC (SDKM - Senate Room)
15:30-15:55	PAPER 2 - Evaluating experimental and analysis uncertainty of resistance tests van de Bunt, E. et al., MARIN, Wageningen, The Netherlands.	PAPER 33 - Benchmarking SPIV Experiments Attwell, H. et al., QinetiQ Haslar, Gosport, UK.
15:55-16:20	PAPER 11 - Experimental study of impact on measurement uncertainty of forced oscillations of a NACA0012 hydrofoil using Particle Image Velocimetry Krishnan, V et al., Delft University of Technology, The Netherlands	PAPER 27- An Experimental Study towards the Applicability of Digital Image Correlation for Motion Analysis of Very Flexible Floating Structures Pot, H. et al., Delft University of Technology, The Netherlands
16:20-16:45	PAPER 30 - An Experimental Study on the Self-propulsion Characteristics of Fully Appended ONR Tumblehome with Uncertainty Analysis Delen, C. et al., Istanbul Technical University, Turkey	PAPER 19 - An experimental study on the loss of buoyancy at depth for closed cell uncoated and coated foam samples <i>Korkmaz, U. et al., QinetiQ, Haslar Marine Technology Park,</i> <i>Gosport, UK.</i>
16:45- 17:10	PAPER 53 - On the implosion of TITAN Submersible Ozden, C., Istanbul Technical University, Turkey	PAPER 29 - A 3D printed propeller's material properties impact on hydrodynamic performance <i>Turkmen, S. et al., Newcastle University, UK.</i>
17:15-19:30	Reception with Canapes & Soft drinks (SDKM - Reception Hall) To be followed by Piano Recital by Int'l State Artist <i>Ms Gulsin Onay</i> (SDKM - Conference Hall)	
19:30	END OF	FIRST DAY





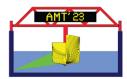
	(Day 2) 25th o	of October 2023
Time	Events & Location	
8:00-9:00	<b>Registry &amp; Coffee/Tea</b> (SDKM - Reception Hall)	
09:00-10:15	Session 4A- SMART COMBINED FLOW VISUALISATION & MEASUREMENT TECHNOLOGIES Chair: TBC (SDKM - Conference Hall)	Session 4B - H2020 GATERS PROJECT SESSION - I (Model tests & Extrapolations) Chair: TBC (SDKM - Senate Room)
09:00-09:25	PAPER 13 - Tracking of forward hull body vortex of a ship at drift angle in shallow water Nataletti, M. et al., Norwegian University of Science and Technology, Trondheim, Norway	PAPER 17 - Systematic experimental survey of propulsive and acoustic performances of a Gate Rudder® system in relation to a conventional rudder Santic, I. et al, National Research Council (NCR-INM), Italy
09:25-09:50	PAPER 24 - Computer Vision Approach for Detailed Characterization of Cavitation Structures Franzosi, G. et al., University of Genoa, Italy	PAPER 47 - On the Evaluation of the Model Test Extrapolation Methods by Sea Trial Measurements Celik, C.et al., Istanbul Technical University, Turkey
09:50-10:15	PAPER 45 - Experimental Investigation of Cavitating and Non- Cavitating Flow over NACA 0015 Hydrofoil Abbasi, A.A. et al., University of Genoa, Italy.	PAPER 40 - Design, Development and Validation of a New Free-Running Maneuvering Test System Özden, C. et al., Istanbul Technical University, Turkey
10:15-11:00	Refreshments (SDKM - Reception Hall)	

Session 5A - FLOATING OFFSHORE STRUCTURES Se   11:00-12:15 MODEL MEASUREMENT TECHNOLOGY & ANALYSIS Se   METHODS METHODS Se	ession 5B - H2020 GATERS PROJECT SESSION - II (Design and Operation Uncertainties)
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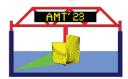
	Chair: TBC (SDKM - Conference Hall)	Chair: TBC (SDKM - Senate Room)
11:00-11:25	PAPER 31 - Experimental investigation of the floatation stability of a scaled floating wind turbine in waves Kang, K. et al., University of Duisburg-Essen, Institute of Ship Technology, Ocean Engineering and Transport Systems (ISMT), Germany	PAPER 37 - Design accuracy and errors of Gate Rudder System of MV ERGE revealed by the GATERS Project Trials Observations Sasaki, N. et al., The University of Strathclyde, Glasgow, UK.
11:25-11:50	PAPER 4 - Towards boundary layer measurements under VLFS interacting with surface waves Uksul, E. et al., Delft University of Technology, The Netherlands	PAPER 52 - Full Scale Measurement Uncertainty for Comparative Tests Insel, M. et al, Hidroteknik, Istanbul, Turkey
11:50-12:15	PAPER 51 - Development of a fully coupled aero-elastic- hydrodynamic-mooring framework for a floating vertical axis wind turbine Liu, K. et al., University of Shanghai for Science and Technology, Shanghai, P.R. China	PAPER 35 - Maneuverability Improvement Investigation of A Costal Vessel Retrofitted With A Gate Rudder System Using Computational And Experimental Methods <i>Gurkan, A.Y. et al., The University of Strathclyde, Glasgow, UK.</i>
12:15-13:45	Lunch (SDKM - Conference Hall)	
13:45-15:00	Session 6A - MISCELLANEOUS MANOEVRABILITY MODEL TESTS & SUPPORTING TOOLS Chair: TBC (SDKM - Conference Hall)	Session 6B - H2020 GATERS PROJECT SESSION - III (Cavitation and Underwater Radiated Noise) Chair: TBC (SDKM - Senate Room)
13:45-14:10	PAPER 6 - Captive Model Tests and 6-DoF Simulations of a BB2 Submarine near the Free Surface <i>Kim, D.J. et al., KRISO, Daejeon, Republic of Korea.</i>	PAPER 48 - Cavitation Observation of M/V ERGE During the Sea Trials: A Comparison of Gate Rudder and Conventional Rudder Configurations Koksal, C. et al., The University of Strathclyde, Glasgow, UK
14:10-14:35	PAPER 10 -A study on the free Running Model Test Method for BB2 Submarine Cho, S. et al., KRISO, Daejeon, Republic of Korea.	PAPER 46 - Effects of the Gate Rudder System (GRS) on the Experimental Cavitation Observations and Noise Measurements Ozsayan, S. et al., Technical University of Istanbul, Turkey
14:35-15:00	PAPER 16 - Spline based trajectory comparison techniques Wens, L., CTech Metrology, Belgium	PAPER 49 - Underwater Radiated Noise Measurements of Pre- and Post-Retrofit of Gate Rudder System During the Sea Trials Koksal, C. et al., The University of Strathclyde, Glasgow, UK
15:00-15:45		shments I - Hall)





15:45-17:25	Session 7A - SMART FREE RUNNING SHIP MODEL TEST TECHNOLOGIES Chair: TBC (SDKM - Conference Hall)	Session 7B - H2020 GATERS PROJECT SESSION - IV (Gate Rudder Blade Design Engineering Aspects) Chair: TBC (SDKM – Senate Room)
15:45-16:10	PAPER 23 - Data acquisition and autonomous control of free running ship models using video motion caption Bowker, J. et al., University of Southampton, UK.	PAPER 43 - On the Structural design of the rudder plate of Gate Rudder Sasaki, N. et al., The University of Strathclyde, Glasgow, UK.
16:10-16:35	PAPER 26 - Automation of maneuvering tests in a towing tank using real-world navigation technology Roettig, F. et al, Development Centre for Ship Technology and Transport Systems (DST), Duisburg, Germany	PAPER 44 - Gate Rudder System: investigation for the use of composite materials Paboeuf, S. et al., Bureau Veritas Marine & Offshore, Nantes, France
16:35- 17:00	PAPER 38 - A free running instrumented container ship model for investigating energy efficiency while manoeuvring in waves Bowker, J. et al., University of Southampton, UK.	PAPER 34 - Computational Investigation of The Impact of a Gate Rudder System on A High Block Coefficient Costal Vessel as A Retrofit Gurkan, A.Y. et al., The University of Strathclyde, Glasgow, UK
17:00- 17:25	PAPER 15 - A state-of-the-art free running system in the Towing Tank for Maneuvers in Shallow Water as part of the ASHIP framework Zwijnsvoorde, Tv et al., Flanders Hydraulics, Antwerp, Belgium	PAPER 50 - Measuring Oscillating Forces of a Gate Rudder Blade using Macro-Fibber Composite Actuator <i>Raftopoulos S. et al., Newcastle University, UK</i> .
18:00-22:00	Conference dinner at PORTAXE Restaurant Balta Limani (Bosphorous) (Buses to depart to Restaurant in front of SDKM)	
22:00	END OF TECHNICAL PRES	ENTATIONS & SECOND DAY

(Day 3) 26th of October 2023



The 7<sup>th</sup> International Conference on Advanced Model Measurement Technology for the Maritime Industry (AMT'23)



Time	Events & Location	
09:30–10:00	Coffee/Tea (The Faculty of Naval Architecture & Ocean Engineering Reception, ITU Maslak Campus)	
10:00 -11:00	GUIDED VISIT TO THE ISTANBUL TECHNICAL UNIVERSITY'S HYDRODYNAMIC TESTING FACILITIES (Meeting at the Faculty Reception Hall)	
10:00-10:30	VISIT TO PROF ATA NUTKU TOWING TANK – Guided tour and demonstration	
10:30-11:00	VISIT TO ITU-CAT Cavitation Tunnel – Guided tour and demonstration	
11:00	END OF THE CONFERENCE	