DEPARTMENT OF NAVAL ARCHITECTURE, OCEAN & MARINE ENGINEERING



OEMT 2023

Ocean Energy and Maritime Transport Conference 2023

7-8 June 2023

TL423/325a, Learning and Teaching Building, University of Strathclyde, Glasgow

Conference Programme

The place of useful learning

The University of Strathclyde is a charitable body, registered in Scotland, number SC015263







Wednesday, 07th June

09:30 - 10:00	Preparation and Greeting (Tea and Coffee)		
10:00 - 10:30	Invited speaker – Assistant Prof. Murat AYMELEK, Iskenderun Technical University (Online) Chair: Prof. Evangelos Boulougouris		
	OE Session 1	MT Session 1	
	Chair: Prof. Atilla Incecik	Chair: Prof. Evangelos Boulougouris	
	Academic panel members: Prof. Chengi Kuo, Prof. Erkan	Academic panel members: Dr Sefer Gunbeyaz, Dr Haibin Wang	
10:30 - 10:55	Investigating challenges of using Ammonia as a future fuel for Marine Industry. Kishore Bedekar (1 st Year)	Development of multipurpose shipyard (Shipbuilding, ship repair and ship recycling yard) to increase productivity and profit (Case study: Indonesian Shipyard) Mohammad Arif (1 st Year)	
10:55 - 11:20	Dynamic Analysis of Launching and Recovering ROV Yulin Deng (3 rd Year and Over)	Dynamic Life Cycle Assessment toward carbon-neutral shipping Chybyung Park (3 year and over)	
11:20 - 11:35	BREAK	BREAK	
11:35 - 12:00	Approximating piecewise nonlinearities in dynamic systems with sigmoid functions: advantages and limitations Cristiano Martinelli (3 rd Year and Over)	Prognostics and Health Management for Ship Machinery Systems Jaehan Jeon (2 nd Year)	
12:00 - 12:25	Structural Analysis of Offshore Pipelines to Prevent Oil Spills and Gas Leaks Frederick Ebili (2 nd Year)	Comparison between Conventional Life Cycle Assessment and IMO Draft Life Cycle Proposal Ioannis Chalaris (2 nd Year)	
12:25 - 13:25	LUNC	H BREAK	
13:25 - 13:55	Invited speaker – Assistant Prof. Önder Canbulat, Bursa Technical University (In-person) Chair: Prof. Chengi Kuo		
	OE Session 2	MT Session 2	
	Chair: Prof. Chengi Kuo Academic panel members: Prof. Maurizio Collu, Dr. Laibing Jia	Chair: Prof. Peilin Zhou Academic panel members: Dr. Haibin Wang, Dr Iraklis Lazakis	
13:55 - 14:20	Reliability-based maintenance scheduling for leading edge erosion offshore wind turbine blades. Javier Contreras Lopez (3 rd Year and Over)	Identifying Safety Issues with Traditional Shipping operations in the Indonesian Archipelago Using Gap Analysis Eka Ardhi (1 st Year)	
14:20 - 14:45	Internal State Estimation for Dynamic Floating Offshore Wind Turbine Modelling Kobe Hoi-Yin Yung (1 st Year)	Natural Language Processing for Automatic Classification of Human Factors from Maritime Incident Reports Hollie Black (1 st year)	

14:45 - 15:10	Structural Optimization Considering Automated (Robot-Based) Ship Production Sufian Imam Wahidi (1 st Year)	Navigating Cyber Risks in the Maritime Industry: Enhancing Crew Awareness for Effective Cybersecurity in Maritime Cyber-Physical Systems Yasin Burak Kurt (2 nd Year)
15:10 - 15:25	BREAK	BREAK
15:25 - 15:50	A vortex induced vibration energy harvesting mini wave device Jane Nyokabi Njeri (2 nd Year)	A Circular Economy Approach for the Maritime Industry: Increased Value Extraction from End-of-Life Marine Assets Dogancan Okumus (2 nd year)
15:50 - 16:15	Analysing cracks in hydrogen pipeline using finite element analysis techniques Abdulsamad Adeniran (2 nd Year)	Risk Assessment of Hydrogen Fuel Bunkering on Ships Insik Hwang (1 st year)
16:15 - 16:40	Effects of fuel cells on polymer electrolyte membrane (PEM) using peridynamics Poovendan Adhiyamankottai (1 st Year)	
16:40 - 17:05	Unsteady RANS CFD Simulation on the Parametric Roll of Small Fishing Boat under Different Loading Conditions Muhammad Iqbal (2 nd Year)	

Thursday, 08th June

09:30 - 10:00	Preparation (Tea and Coffee)	
10:00 - 10:30	Invited speaker – Assistant Prof. Bassam Mohammedsaleh S Aljahdali, King Abdul Aziz University (online) Chair: Dr Iraklis Lazakis	
	OE Session 3	MT Session 3
	Chair: Dr Julia Race	Chair: Dr Iraklis Lazakis
	Academic panel members: Prof. Chengi Kuo, Prof. Qing Xiao	Academic panel members: Dr Sefer Gunbeyaz, Dr Haibin Wang
10:30 - 10:55	Floating Offshore Wind Turbine Structures - Potential Areas of Research. John Harris (1 st Year)	Enhance Reliability Onboard Maritime Operations using Scissors Approach as Risk Analysis Model. Bebetebe Fetimi (2 nd Year)
10:55 - 11:20	An introduction to Phase-Field modelling for SN-curve prediction. Emmet Mclaughlin (1 st Year)	Numerical modelling of methanol combustion in marine engines Panagiotis Karvounis (2 nd Year)
11:20 - 11:45	Fluid Structure Interaction Simulations of a Flexible Plate for Tidal Current Energy Harvesting with Smart Material Estefan Diaz-Mercado (1 st Year)	HFs and Maritime Hydrogen-Fuelled Systems: An Investigation of Human Performance and the Influence on System Design Yaser Farag (2 nd Year)
11:45 - 13:00	LUNCH BREAK	
13:00 - 13:30	Invited speaker – Dr Nikoletta Trivyza, RINA (online) Chair: Prof. Erkan Oterkus	
	OE Session 4 Chair: Prof. Erkan Oterkus, Academic panel members: Prof. Atilla Incecik, Prof. Chengi Kuo	
13:30 - 13:55	Effect of Erosion on Tidal Turbine Blade Payvand Habibi (1 st Year)	
13:55 - 14:20	How additive manufacturing could play a role in offshore structures Fraser O'Neill (1 st Year)	
14:20 - 14:45	Numerical simulation of two-dimensional steady state temperature distribution in buried dense phase CO ₂ pipelines Babafemi Olugunwa (3 rd Year or Over)	
14:45 - 15:10	BREAK	BREAK
15:10 - 15:35	Factors influencing airgap of a semi-submersible offshore platform Renjeev Gopalakrishnakurup (1 st Year)	

15:35 - 16:00	Various integrated systems based on FOWT Haitao Wu (1 st Year)	
16:00 - 16:25	An FEA approach to simulate hydrogen embrittlement using Abaqus Software Dario Gravina (2 nd Year)	
16:25 - 16:50	Investigation into a novel tidal device using vortex induced vibrations in two degrees of freedom. Sarah Kelly (2 nd Year)	
16:50 - 16:55	BREAK	BREAK
16:55 - 17:05	ANNOUNCEMENT OF BEST PRESENTERS AND CLOSE	
17:05 ~ 19:00	Social Event (Level 2, Students Union, LT Building)	