

**7th INTERNATIONAL CONFERENCE ON
SHIP & OFFSHORE TECHNOLOGY – INDIA**

ICSOT 2023
Green Technologies in the Maritime Industry

8th – 9th December 2023
Kharagpur, India



**DEPARTMENT OF OCEAN ENGINEERING & NAVAL
ARCHITECTURE, IIT KHARAGPUR**
AND
THE ROYAL INSTITUTION OF NAVAL ARCHITECTS, UK

7 th December, 2023: High Tea: 6 pm – 8pm	
8 th December, 2023	
08:00 – 09:00	BREAKFAST
	INAUGURAL SESSION
09:00 – 09:05	LIGHTING THE LAMP
09:05 – 09:10	WELCOME ADDRESS BY ORGANIZING SECRETARY
09:10 – 09:15	ADDRESS BY HEAD, OENA
09:15 – 09:25	ADDRESS BY ASSOCIATE DEAN, CE&T
09:25 – 09:35	ADDRESS BY REGISTRAR, IIT KHARAGPUR
09:35 – 09:50	ADDRESS BY DIRECTOR, IIT KHARAGPUR, PATRON OF THE CONFERENCE
09:50 – 09:55	VOTE OF THANKS
	END OF INAUGURAL SESSION
10:00 – 10:40	KEYNOTE ADDRESS:- NUNO MIGUEL MAGALHAES DUQUE DA FONSECA, SCIENTIST, SINTEF OCEAN
10:40 – 11:00	TEA BREAK
11:00 – 11:30	INVITED TALK:- CHIA-CHENG TSAL, PROFESSOR, NATIONAL TAIWAN OCEAN UNIVERSITY
11:40 – 13:00	TECHNICAL SESSION AT GARGI AUDITORIUM SEA KEEPING I & MANEUVERING I
11:40 – 12:00	Adequacy of Hydrodynamic Coefficients in a Generalised Submarine Maneuvering Model- Debabrata Sen
12:00 – 12:20	A Study of Active Fin System to Reduce Vertical Motion of Ships Using 3D Panel Method - Shivaji Ganesan T
12:20 – 12:40	Development of a 3D NWT for the Forward Speed Ship Motion Problem-Shivaji Ganesan T
12:40 – 13:00	A Ship Weather Routing System for Route Optimization Using A* Algorithm - Anandu Raj
11:40 – 13:00	TECHNICAL SESSION AT MAITRAYEE AUDITORIUM SHIP BUILDING AND REPAIR
11:40 – 12:00	Molecular Simulation of AA 5083 & HSLA Steel Welding by FSW Techniques for Marine Structure. - Gaurav Chauhan
12:00 – 12:20	Multi-Severity Corrosion Classification Using Computer Vision - A Jose
12:20 – 12:40	Composite Boat Construction in Bangladesh: Quality, Durability, and Sustainability Aspects - Shaikha Shohuda
12:40 – 13:00	Drone-Based Anomaly Detection for Structural Health Monitoring Using Deep Learning – A Jose
13:00 – 14:00	LUNCH
14:00 – 14:40	KEYNOTE ADDRESS:- ASOKENDU SAMANTA, CHIEF SURVEYOR AND SENIOR VICE PRESIDENT, INDIAN

	REGISTER OF SHIPPING	
14:40 – 14:50	BOOK LAUNCH: ‘GLORIOUS WATER TRANSPORT HERITAGE OF KALINGA – ANCIENT TO RECENT TIMES’	
	Name of the Author	Prof. S. C. Misra
14:50 – 16:10	TECHNICAL SESSION AT GARGI AUDITORIUM SHIP STRUCTURES	
14:50 – 15:10	Coupled Dynamic Response of Hull-Mooring Interaction - Akshay Suresh Shimpi	
15:10 – 15:30	DAA-Based Investigation of Whipping Response of Ship Exposed to Underwater Explosion- Sachin S. Awasare	
15:30 – 15:50	Isogeometric Finite Element Analysis of Laminated Composite Stiffened Plates for Ship Structures - Ashish Kr. Singh	
15:50 – 16:10	Numerical Assessment of Air Lubrication System for Tanker – Himanshu Uppal	
14:50 – 15:50	TECHNICAL SESSION AT MAITRAYEE AUDITORIUM SEA KEEPING II & MANEUVERING II	
14:50 – 15:10	Collision Avoidance of Maritime Autonomous Surface Ships (MASS) Based on Heading Set Approach with Multiple Ships Encounter in Compliance with COLREGs - Rishi Gajapathy	
15:10 – 15:30	Added Wave Resistance Prediction Using a 3D Panel Method - Shivaji Ganesan T	
15:30 – 15:50	On Preparation of Operation Measures Under the Second Generation of Intact Stability Criteria - Amresh Negi	
16:10 – 16:30	TEA BREAK	
16:30 – 17:30	INDUSTRY PRESENTATION AT GARGI AUDITORIUM	
19:30 – 22:00	CONFERENCE DINNER	

9 th December, 2023	
09:40 – 10:20	KEYNOTE ADDRESS:- MIKE MEYLAN, FACULTY OF SCIENCE, NEWCASTLE UNIVERSITY
10:20 – 11:20	TECHNICAL SESSION AT GARGI AUDITORIUM WAVE POWER
10:20 – 10:40	Wave power extraction by an OWC device in the presence of a porous bottom – H Behera
10:40 – 11:00	Hydro-kinetic energy harvesting from vortex – induced vibrations – Mohammad Rabius Sunny

11:00 – 11:20	Power extraction by a submerged piezoelectric plate near rigid wall – N Naik
10:20 – 11:20	TECHNICAL SESSION AT MAITRAYEE AUDITORIUM MARITIME TRANSPORTS AND PORTS
10:20 – 10:40	Auto Pilot for Free Running Models - Yashwanth Krishna Chityala
10:40 – 11:00	An Innovative Solution for Floating Pontoon Bridges: Unhindered Traffic Across and Inland Vessels along the River Ganges – Om Prakash Sha
11:00 – 11:20	Race Towards Zero Emission in Inland Waterways – The Future Is Electric - Harshit Nagar
11:20 – 11:40	TEA BREAK
11:40 – 13:00	TECHNICAL SESSION AT GARGI AUDITORIUM SEA KEEPING III & MANEUVERING III
11:40 – 12:00	Numerical Simulation of Water Entry Problems Using Incompressible SPH – Praneeth Lanka
12:00 – 12:20	A Time Efficient Approach for Prediction of Slamming Load - Ranadev Datta
12:20 – 12:40	Exploring Deep Learning Methods for Solving the Navier-Stokes Equation: A Review - Vijaya Lakshmi Thiagarajan
14:40 – 13:00	Numerical Modelling of VOF to Investigate Ventilation in High-Speed Craft - Kalyanam Shanmukha Srinivas
13:00 – 14:30	LUNCH
14:30 – 15:10	KEYNOTE ADDRESS:- MICHEL ORYCH, MANAGING DIRECTOR, FLOWTECH INTERNATIONAL AB
15:15 – 16:25	TECHNICAL SESSION AT GARGI AUDITORIUM MARINE OPERATIONS
15:15 – 15:25	Twin Delayed Deep Deterministic Policy Gradients for Path Following of Autonomous Surface Vehicles - Vishnu KT
15:25 – 15:45	Fin effect of Stiffeners in Bulk/Ships Carrying Liquefied Gases for Heat Transfer Analysis - Arun Kishore Eswara
15:45 – 16:05	Marine Cycloidal Propeller with Electromagnetic Coil - Abbas Haider
16:05 – 16:25	PID-Based Anti-Sway Control for Oscillation Minimization in Cranes - Mahika Matta
15:15 – 16:05	TECHNICAL SESSION AT MAITRAYEE AUDITORIUM AI IN MARITIME ENGINEERING
15:15 – 15:35	Parameters Optimization of Oyster Wave Energy Converter Devices using Artificial Neural Network Model – Santanu Koley
15:35 – 15:45	Resistance Prediction of Sailing Yachts Using Machine Learning - Argha Saha
15:45 – 16:05	Predicting Slamming Pressure on Ships: A Deep Learning

	Approach - Fahad Peerali Paloth
16:05 – 16:25	Modelling metal plasticity and patterns in hydrogels using data driven approaches – Gurudas Kar
16:25 – 16:45	VALEDICTORY
16:45 – 17:00	HIGH TEA

- All Functions will be at Gargi Auditorium except the paper presentations as Mentioned above
- Tea/Breakfast/Lunch will be at the Foyer of the Conference Venue