

Transtech 2024



The 17th edition of the All-India Technical Seminar 'Transtech 2024' was organized by Tolani Maritime Institute (TMI), Pune, and Institute of Marine Engineers (India), Student Chapter, TMI, Pune in association with the Institute of Marine Engineers (India), Pune Branch, and The Institution of Engineers (India), Pune Local Centre, from 6-8 March 2024, at the TMI Campus.

'Revolutionizing Shipping: Trends, Technologies, and Sustainable Development' was the event's theme. Chief Guest, Dr Vibha Dhawan, Director General, The Energy and Resources Institute (TERI), Guest Speaker, Rajesh

Doshi, Founder, Director, and CEO of Dwarka Kutch Ferries & Tourism Pvt Ltd, the President of the Institute of Marine Engineers (IMEI), Rajeev Nayyer, and the Secretary, IEI-Pune, Uttam Awari, graced the occasion.

TMI's Principal, Dr Sanjeet Kanungo shared his feelings in his welcome address and introduced Transtech 2024

as the official platform for professionals of tomorrow from maritime training institutes and engineering colleges across India to showcase their talent and churn out new ideas for the future of the maritime sector. This was followed by the address of Rajeev Nayyer, and Abhishek Sharma, Faculty in Charge, Institute of Marine Engineers (I), Student Chapter, TMI Pune.

Dr Dhiren Dave, convenor for Transtech 2024, shed light on the current state of the shipping industry and the various trends and technologies that are shaping its evolution. He highlighted the need to acknowledge the significance of embracing sustainable practices and responsible development within the shipping sector. He emphasized the importance of adopting eco-friendly approaches, safeguarding maritime security, ensuring



the well-being of individuals involved in shipping, and fortifying the resilience of supply chains.

Rajesh Doshi enlightened the gathering about 'Fishing and Salt-Pan Workers'.

Dr Vibha Dhawan, released 'Transtech-2024 — Book of Proceedings and 'Tolani Maritime Institute's Journal





held on the final day. The event began with a welcome speech by Dr Sanjeet Kanungo, followed by a very informative talk by Guest Speaker Koustubh Phalnikar, Joint GM, L&T Defence, and a very inspiring talk by the Chief Guest Shirish Deshmukh, Director, Padmashree Electronics, Pune. Mr Phalnikar, talked about 'Indigenous Technologies for the Naval Sector', while Mr Deshmukh spoke on topics like missile technology, his work experience with Dr Abdul Kalam, out-of-the-box thinking, etc.

All winners were awarded certificates and cash prizes. The Transtech 2024 Theme Poster prize was won by Cdt Anshul Kushwaha. The wonders of their graphics and photography skills were being aired on all three days as Cdt Karan Gulati, Cdt Samarth Jogi and Cdt Harsh Sharma won the

of Maritime Fundamentals and Applied Research', followed by her speech on 'Climate Change: Impacts, Adaptation & Mitigation'. The inaugural session was concluded with a vote of thanks by TMI's Vice-Principal, Marine Engineering, Prof Shailendra Kumar.

Soon after, technical paper presentations were conducted in the presence of the judges Anand Thakoor, Anil Bhat, Ajit Shelar, along with the session chairs Dr N.D. Junnarkar and Capt Arvind Tripathi from TMI, wherein eight papers were presented on various topics by the participants.

Day 2 of Transtech 2024 was equally eventful and energetic. Kishore Darda, Vice President – International Business, Garware Technical Fibres Limited, was the guest speaker. He gave an informative lecture on 'Innovations in Rope Technology to Enhance Crew Safety and Ease of Operations'. Following this, Vice Principal, Nautical Studies, TMI, Capt Indranath Banerjee, delivered the vote of thanks.

Later, technical paper presentations were chaired by Prof Sujata Male and Prof Sankar Subramanian. Six papers were presented on various topics by the participants.

The much-awaited 'marine quiz' followed. In the elimination round, seven teams participated. Tolani Maritime Institute, Maharashtra Academy of Naval Education and Training, and Samudra Institute of Maritime Studies, the final teams, competed with each other with their full potential, skill, and knowledge. Tolani Maritime Institute emerged as the winner.

The valedictory function was

Transtech Video Making competition. The winners of the popular Marine Quiz competition were Cdt Rushil Jain, and Cdt Anik Raj from Tolani Maritime Institute, followed by Cdt Samrudh, Cdt Alampalli Manjunath Sukesh from MANET, Pune, in second place. Cdt Dhruv Kumar Mangal and Cdt Shivam Kumar from TMI secured the third position.

A total of 24 entries were registered for the Model-Making competition. The models were judged by Deepak Saranjame, Arvind Kumar, and the Technical Superintendent, MOL Group, Amarbir Singh. The winners of the Model-Making competition were Cdts Omkar Giri, Prashant Shedage, and Vaibhav Tijare from Anglo-Eastern Maritime Academy with their model on 'Solar powered alternators to reduce GHG emissions'. This was followed by models by the other two teams of TMI at second and third positions. Out of the six potential entries, the winners of the Poster Making competition were Cdts Manav Kengar, Aniket Palave, and Kohinoor Jethani from TMI for their poster on 'Toroidal Propeller: The Future of Propulsion'.





Two special prizes for best Female Cadet in the paper and model category were sponsored by Sanjeev Ogale, Former President, Institute of Marine Engineers, Pune. The prize for best paper presenter

(female) was won by Cdt Vaibhavi Pare, from T.S. Chanakya. The prize for best model maker (female) went to Sharvari Karhe and Ruchita Kagne from PVG College of Engineering, Pune.

ClassNK, General Manager, Sumithran Sampath, also awarded the cash prizes and certificates, instituted by

ClassNK for model makers of TMI.

The technical paper presentation, being the highlight of the event, had its top three technical papers in the following order: the third place was secured by Cdts Manav Gurjar and Karan Rautela from TMI, for 'Renewable Energy-Driven Liquid Nitrogen Generation for High-Pressure Work Extraction in an Open-Loop System'. The second place was taken by Cdts Vatsshree Dwivedi, Jeet Shah, Hardik, and Niharika from TMI, for 'Applications of Quantum Sensors in Shipping'. Winners of the paper presentation competition were Cdts Vaibhavi Pare, and Aditya Gaikwad from T.S. Chanakya, for 'Green Shipping and Environmental Sustainability — Ammonia Fuel Cells".

The valedictory session concluded with a vote of thanks by Sr Vice-Principal, TMI, Capt Manoj Hirkane.

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