Outstanding Students' Works in Marine & Offshore Engineering

MARINE ENGINEERING AND NAVAL ARCHITECTURE TECHNICAL DIVISION

reported by

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IEM organised a technical talk on Outstanding Students' Works in Marine & Offshore Engineering in collaboration with Malaysia Joint Branch RINA-IMarEST.

The principal speakers were Captain Ir. Franklin J. Joseph from RMN and Ir. Khor Yee Shin (Albert). There were 14 participants from IEM and Malaysia Joint Branch RINA-IMarEST at the talk on 9 August, 2017, held in TUS and C&S Lecture Room, Wisma IEM.

Opening speech by Captain Ir. Franklin J. Joseph (RMN)

The objective was to share information on winning Thesis Presentations by undergraduates in marine-related courses from Universiti Teknologi Malaysia, Universiti Pertahanan Nasional Malaysia and Universiti Kuala Lumpur.

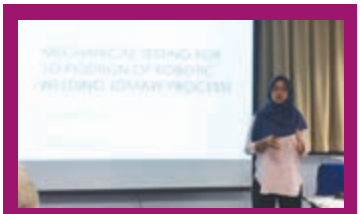
Cik Nur Masitoh Islamiah binti Mustaffa Kamal from Universiti Teknologi Malaysia (UTM) won for her project titled Construction & Testing of Slam Shock Absorber for Small High-Speed Crafts. Based on tests carried out on scale-models of 25m and 7m boats, the shock absorber would significantly reduce the shock for personnel on board such crafts. Cik Nur planned to further pursue the project by testing the models at Towing Test Facilities with wave-generating facilities.

Cik Nur Masitoh Islamiah presenting her project

Cik Nur Nelizza binti Abdul Manaf's project was Emergency Surface Marker Buoy Prototype for Adrift Divers. The certified diver from Universiti Pertahanan Nasional Malaysia (UPNM), found that existing equipment in the market did not function satisfactorily, especially when currents were swift. The existing marker buoys were also too cumbersome to operate, especially for divers facing difficulties. Using components available in the market, her project prototype proved to be more functional. The most significant improvement was the use of carbon dioxide canisters to inflate the buoy instead of the diver's mouth-piece and the use of conical-shaped buoys instead of cylindrical buoys.

Cik Nur Nelizza explaining her project details

Cik Nabila Attiqa binti Abdul Ghani was the winner from Universiti Kuala Lumpur – Malaysian Institute of Marine Engineering Technology (UniKL MIMET). Her project, Mechanical Testing for 1G Robotic Welding of GMAW Process, was on the testing of mild steel plates welded by robots. The currents were varied from 110 amperes to 170 amperes with increments of 10 amps between each specimen. It was found that the weldment with 110 amps was significantly better in terms of hardness and higher tensile strength than the base plates.



Cik Nabila Attiqa presenting her project

The talk offered an insight into research activities carried by universities on marine-related studies. It is hoped that such activities will continue to be carried out and that all universities with marine-related courses will be invited to participate. ■

Dato' Pahlawan Ir. Hj. Jasan Ahpandi bin Sulaiman (Rtd) presenting a token of appreciation to Ir. Khor Yee Shin (Albert).