

Talk on

"Ship Resistance and Powering"

Organised by: Marine Engineering & Naval Architecture Technical Division, IEM

BEM Approved CPD/PDP Hours: 2 F

Ref. No. IEM19/HQ/457/T

Date	: 28 th September 2019 (Saturday)
Time	: 11.00am – 1.00pm (Refreshments will be served at 10.30am)
Venue	: Auditorium Malakoff, Ground Floor, Wisma IEM, Petaling Jaya
Speaker	: Prof. Dr. Adi Maimun Bin Abdul Malik

SYNOPSIS

The knowledge of ship resistance and powering is an important aspect to be considered in ship design. Ship powering requirement is often requested by the ship owner and a contract is usually written before the construction of the vessel by the ship builder. Ship resistance is mainly from the drag of the ship's hull and the resultant wave making due to the interaction of the hull with the surrounding water. Whilst ship powering is the power required by the propulsion device to drive the ship's hull at the required speed. With all these considerations, the ship designer could determine the appropriate propulsion system for the particular ship design. Ultimately, an efficient hull and propulsion system will result in an environmentally friendly ship hull with minimum possible emissions of the exhaust gases.

In this presentation, firstly, a brief overview of the ship resistance and powering is given. This is then followed by presenting some experiences gained through the research work and model tests carried out at the Towing Tank of Universiti Teknologi Malaysia since its operation in the year 1997. Work on various ship hulls like Displacement hull, SWATH, Trimaran and Amphibious boat are given. Some aspects of shallow water and bank effects are also provided. In the age of computerization, the use of numerical computation in CFD is also highlighted.

SPEAKER BIODATA



Prof. Dr. Adi Maimun Bin Abdul Malik has been working at Universiti Teknologi Malaysia (UTM), Malaysia as full-time academics since 1986. He graduated from University of Strathclyde Glasgow in 1983 with a B.Sc. in Naval Architecture. He then pursued his MSc. in Marine Technology at the same university in 1985. In early 1993, he completed his Ph.D degree in Marine Technology. Prof. Dr. Adi Maimun Bin Abdul

Malik is currently a Head, Ship & Offshore Technology Research Group at UTM. Among of his researches projects are Low Speed Vertical Axis Current Turbine for Electrification of Rural Areas (2017-2019) and EU Project (Eramus+ Inmotion) – Development of Computer Modeling & Simulation for Engineering (CMSE) Online Courses using Blended Learning and Moocs approaches (2016-2019). He is also Chairman for ISO Malaysia (Ship & Marine Technology Committee), SIRIM (2011 - Present).

FEE ANNOUNCEMENT (Effective: 1st October 2017)

Members:

(i) Registration	Fee:	No	
Charge			
(ii) Administrative Fee:			
(a) Online	RM	15	
(b)Walk-In	RM	20	

Non-Members:

(i) Registration Fee: RM50 (ii) Administrative Fee: RM20

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