ABSTRACT

This lecture provides an overview of the role and contribution of the maritime community in developing a more sustainable future. Sustainable development is defined by the Bruntland Report as development which meets the needs of the present without compromising the ability of future generations to meet their own needs. Within the last decades, various international fora have been organised and multitudes of legal and institutional frameworks, policies and measures have been initiated to address this issue. Shipping is the most ubiquitous human intervention of the ocean. The issue of sustainable shipping mainly revolves around three main topics; pollution (in its various forms), invasion of alien species through ballast water and carbon dioxide emissions together with their undesirable effects of global warming and ocean acidification which have far reaching consequences. Marine engineers, technologists, shipowners, and port operators have big roles to play, mainly to take measures to reduce pollution, avoid the invasion of alien species and reduce the production of carbon dioxide. Recognising the importance of the ocean to the well-being of mother-earth and the survival of human-kind, sustainability issues must be incorporated in the education of future marine engineers, technologists, port officers and sea farers.

Number 81

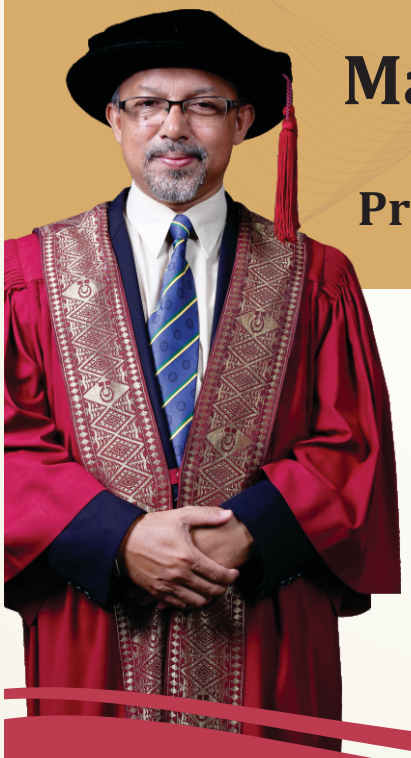
Professorial Inaugural Lecture Series

UTM
UNIVERSITI TEKNOLOGI MALAYSIA

Sustainable Ocean : The Role of the Maritime Community

by

Professor Dr. Omar Bin Yaakob



12 April 2016 (Tuesday) | 2.00 pm
Lecture Hall 2,
Block E07,
Faculty of Mechanical Engineering,
UTM Johor Bahru

innovative ● entrepreneurial ● global

BIODATA

Born on the 20th August 1960 in Baling, Kedah, Professor Omar began his studies at Sekolah Kebangsaan Kuala Kupang. Upon completion of primary six in 1972, he went to Sekolah Tuanku Abdul Rahman, Ipoh where he passed Malaysian Certificate of Education in 1977 with distinction. MARA then sponsored him to pursue A-levels at Harrogate College of Further Education, United Kingdom and subsequently at the University of Newcastle. In 1983, he returned to Malaysia with a Bachelor of Science (Hons) Marine Engineering degree.

He started his career at Universiti Teknologi Malaysia (UTM) as an Assistant Lecturer in the Department of Thermal Fluids, Faculty of Mechanical Engineering in August 1983. He was involved in pioneering the development of the curriculum, the development of Marine Technology Laboratory and marine related R & D activities in UTM. While in the service he continued his studies and completed Masters Degree Marine Technology in 1987 and a Ph. D in Seakeeping Design in 1999 at the University of Newcastle. He was appointed an Associate Professor in 2000 and a Professor in 2011.

He has held the post of Head of the Marine Panel in 1989-1990, Head of the Department of Thermal Fluids in 1990-1992, Head of the Marine Technology Laboratory (1999-2007), Head of the Department of Marine Technology (2007-2010) and Deputy Dean (Academic) 2010-2012. Professor Omar is a member of the UTM Senate since 2013.

In the early stages of his career at UTM, Professor Omar focussed teaching and R&D in the fields of naval architecture, ship design, hydrodynamics, marine transport, management and operation. Since the early 2000s, he has pioneered a new field in Malaysia; renewable ocean energy and marine environment. His experience and expertise in this field was well known that was invited to represent Malaysia in a forum on ocean renewable energy in the headquarters of the the United Nations in New York in 2012. He has also represented Malaysia several times at meetings of the World Maritime Organisation (IMO) on marine pollution since 2010.

Professor Omar has produced nearly 60 journal articles and presentations at conferences. He was invited to give keynote addresses at various conferences including in Saudi Arabia, Pakistan and the Philippines. Professor Omar is actively involved in research and has obtained grants from various sources including FRGS, ERGS, PRGS, TRGS, KeTTHA fund, Johor Port Authority, Look East Policy Fund and UTM-GUP fund. He has filed 5 patent.

Professor Omar's expertise and experience is recognized internationally as the Royal Institution of Naval Architects has appointed him as a Fellow in 2010 and accorded a Chartered Engineer status by the UK Engineering Council in the same year. In addition, he was also appointed as an Associate of the Academy of Sciences Malaysia. He was one of the founders of South East Asia Collaboration on Ocean Renewable Energy (SEAcORE) and also a member of the IOC-Westpac Working Group on Marine Renewable Energy.