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WEBINAR TALK ON

Introduction to Simulations – Fundamentals and Applications

CPD APRROVED BY BEM : 2.0 REF. NO : IEM21/HQ/123/T (w)

Organised by: Marine Engineering and Naval Architecture Technical Division

25 MAY 2021, TUESDAY
3.00PM - 5.00PM

SPEAKER : Ir. Ts. ABDUL MALIK HUSSEIN BIN ABDUL JALIL

Registration Fee (effective from 1st August 2020)

IEM Students : FOC
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SYNOPSIS

Simulations is a growing and established problem solving approach covering a wide range of significant engineering knowledge, particularly in Solid Mechanics and Mechanical Engineering Design. The speaker will share his knowledge on the fundamentals of simulations through works to provide better understanding on the outcome using appropriate simulation tools. In today's world, we are faced with many uncertainties and challenges when solving engineering problems. Simulation tools does help but one must understand the correct philosophy behind the tools before can be applied in the industry. In general, simulations are used to perform various types of engineering analysis; from Finite Element Analysis (FEA), Computational Fluid Dynamics (CFD), Fatigue Analysis, etc... to predict various analysis outcomes. Although it is impossible to specialize in all simulation fields, the speaker has been exposed to various applications through study, work experience and marketing activities; and over the years has developed a good understanding on its application in solving various types of problems.

SPEAKER'S PROFILE

Ir. Ts. Abdul Malik Hussein bin Abdul Jalil holds a MSc in Mechanical Engineering from MARA University of Technology (UiTM), Shah Alam, graduated also with a 2nd Class Uppers Honors, B.Eng in Mechanical Engineering from University of Sunderland, UK. Also a trained mariner, Abdul Malik completed the 2nd Class Certificate of Competency (Steam) from Malaysian Maritime Academy (ALAM) and Diploma in Marine Engineering from Ungku Omar Polytechnic, Ipoh, Perak. Abdul Malik carries a wealth of experiences in various aspects of mechanical engineering and design. After his sailing career with MISC (4th Engineer on board the SS Tenaga Fleet), Abdul Malik worked as a Computer Aided Engineer (CAE) for four years in Caidmark Sdn Bhd mainly carrying out aircraft related assignments mainly engineering simulations, before moving to J P Kenny Woodgroup Sdn Bhd (now known as WOOD) as a pipeline design engineer for one year. Also for one year, Abdul Malik acted as a project manager with S P Energy Sdn Bhd managing the maintenance of the Deutz Gas Generators before moving to Adex Sdn Bhd as a technical manager supporting MSC.Software simulation software solutions such as Patran, Nastran, Adams etc. Since 2014, Abdul Malik was welcomed as a Senior Mechanical Engineering Consultant with Caidmark Sdn Bhd, managing various assignments to various industries, related to CBM activities and engineering simulations. One of the significant roles was to be a part of the simulation team for the RMAF Sukhoi Life Extension Program.

Besides career growth, Abdul Malik has also shown interest in self-professional development. He has been a Professional Engineer (PEPC – Mechanical) since 2007 and a corporate member of IEM since 2008 and recently join as a committee member of IEM's MNATD. Also recognized as a Chartered Engineer with the UK Engineering Council and Chartered Marine Engineer from Institute of Marine Engineering, Science and Technology (Imarest), UK. In 2019, Abdul Malik was recognized as a Professional Technologist (Ts) in the field of Maritime Technology (MI) from the Malaysian Board of Technologist (MBOT). Outside the office, Abdul Malik is currently an active committee member of the Rina-Imarest Malaysia Joint Branch, an assessor and assistant coordinator for Professional Review Interview (PRI) process on behalf of Imarest and UK Engineering Council.