

WEBINAR ON TOWARD SPECIALIZATION NEEDS OF RAILWAY SYSTEMS SERIES - #1 AN INTRODUCTORY KNOWLEDGE OF AC/DC RAILWAY SCHEMES IN MALAYSIA - TRAIN DYNAMICS

BEM APPROVED CPD/PDP: 2 REF. NO.: IEM20/HQ/233/T (W)

THURSDAY, 5 NOVEMBER 2020
5.30PM - 7.30PM

SPEAKERS :

Ir. Dr Amir Basha Ismail,

Chairman , Railway Systems , Electrical Engineering Technical Division, IEM

Mohd Syazwan bin Sulaiman

REGISTRATION FEES
(EFFECTIVE 1ST AUGUST 2020)

IEM MEMBERS : RM 15.00

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SYNOPSIS

This webinar talk will presents a brief overview & background of existing /railway industry structure, technical disciplines of a modern railway project and its operational schemes in Malaysia. It then introduces the subject of dynamics of train movements of wheel-track system, railroad resistances, tractive force (effort), speed-tractive effort curve/speed-distance curve between two stops, and the traction diagram and equation of motion. After that we will continues with salient points of Module 1 and develops the train motion kinematics/equation of motion and introduces the concept of trains spacing and separation for safe railway operation

SPEAKER'S BIODATA

Ir. Dr Amir Basha Graduated with B.Sc. (Eng) 1st Class Hons, from University of London King's College in 1974, and M.Sc. and Ph.D in Power Systems from University of Manchester in 1976 and 1979 respectively. Served LLN/TNB for 33 years (1974-2007) and was one of those several local pioneer engineers who were involved in the planning, design, implementation and operation of the 500kV/275kV/132kV National Power System Grid, holding positions of Senior Engineer and Chief Engineer in the Development Planning and System Operation Divisions. He was principally involved in the setting up of UNITEN and TNB Research (full subsidiaries of TNB) in the mid-1990s, as the First (Founding) Dean College of Engineering UNITEN and Managing Director of TNB Research, respectively before his retirement in 2007. Since then, he has been with Minconsult leading/assisting teams involved in power system projects, such as power generating plants, electric traction rail projects (LRT/MRT, KTMB and High Speed Rail (HSR), Solar PV projects, Management & Engineering Audits of the ESI, and formulation of Feasibility Study Reports/MasterPlan Study Reports related to Electricity/Energy Planning. A BEM-registered Professional Engineer Practicing Certificate and ASEAN Chartered Professional Engineer, Corporate Member of IEM and Alumni Harvard Business School Senior Management Program.

Mohd Syazwan bin Sulaiman was graduated from University of New Brunswick (2012, Canada) in Electrical Engineering (Power System). He started his career in Minconsult Sdn Bhd and his first rail project was Kelana Jaya Extension Line (KLJ) Project. He was involved in both design and site office experience as Project Engineer and Assistant Resident Engineer respectively. Since 2017, he was involved in various rail projects such as LRT3, KL-SG HSR, and several high level railway studies. In KL-SG HSR (TAC Project), he had an opportunity to model and run the operation simulation of KL-SG HSR using OpenTrack software. He is currently working in LRT3 project as a system interface and electrical engineer for LV system.