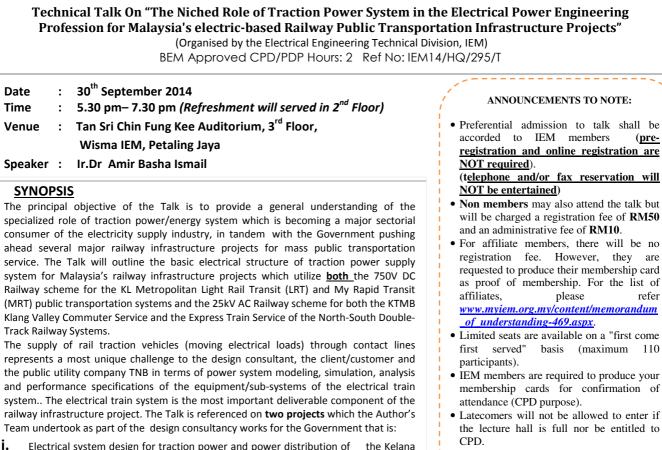


THE INSTITUTION OF ENGINEERS, MALAYSIA

Bangunan Ingenieur, Lot 60/62, Jalan 52/4 Peti Surat 223. 46720 Petaling Jaya, Selangor Darul Ehsan Tel: 603-7968 4001/2 Fax: 603-7957 7678 E-mail : sec@iem.org.my IEM Homepage : http://www.myiem.org.my



- Electrical system design for traction power and power distribution of the Kelana Jaya LRT Extension Project which uses the four-rail 750V DC Railway scheme (for this part of the Talk, we will highlight the use of the Linear Induction Motors (LIM) for gear-less linear propulsion on the KLJ LRT Line compared to the more conventional rotary propulsion squirrel-cage induction motors with gearing systems on the train wheel-axles of most railway traction which are of three-rail configuration such as the Ampang Line LRT and the new KVMRT.Line 1 Sg.Buloh-Kajang Line.
- ii. Power System Assessment of the Existing KTMB Klang Valley 25kV Traction Power System Adequacy to Support the new 6-car Train with Shorter Headway Commuter Service Operation (for this part of the Talk, we will describe the necessary Traction Power Simulation (using industry-standard Software) of the moving accelerating/braking electrical loads (the electrical trains) that receive their power supply through single-phase AC 25kV contact lines and to assess the adequacy of the existing single-phase AC 132/25kV traction power substations that feed the 25kV overhead catenary system equipment (OCS).

BIODATA OF SPEAKER

Ir.Dr Amir Basha Ismail served LLN/TNB for 33 years (1974-2007). He was one of those several local pioneer engineers who were involved in the planning, design and operation of the 500kV/ 275kV/132kV National Power System Grid (1979-1993), holding positions of senior engineer and and System Operation divisions of TNB. In 1994, when TNB was instructed by the Government to

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set up its own university, Dr. Amir was one of those several engineers from TNB who were entrusted to the university project and was made the Founding Dean of College of Engineering , Universiti Tenaga Nasional (UNITEN) . When TNB Research Sdn. Bhd. (another subsidiary of TNB and located next to UNITEN),) and its associated laboratories were being set up at about the same time as UNITEN, Ir. Dr. Amir was then assigned to TNB Research as its General Manager and later became its Managing Director from 1998 -2002. He was then assigned again to UNITEN as the Dean of College Graduate Studies/Professor of Power Engineering Centre until his retirement from TNB in 2007.

From 2008, he joined Minconsult Sdn. Bhd. as the Senior Consultant/General Manager leading/assisting teams that were involved in power system projects , such as power generating plants, electric traction railway projects (LRT/MRT and KTMB), renewal energy projects (large-scale FiT Solar PV projects, mini-hydros), Management & Engineering Audits of electricity supply industry and formulation of Feasibility Study Reports/Master Plan Study Reports related to Energy/Electricity Planning. In 2013, he was appointed by University Malaysia Perlis (UniMAP) as the Visiting Professor at the School of Electrical Engineering Systems.

Ir. Lam Sing Yew Chairman **Electrical Engineering Technical Division, IEM** Preferential admission to talk shall be (preregistration and online registration are