



## The Institution of Engineers, Malaysia

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# Technical Talk on “Magnetic Resonance Imaging (MRI) Safety”

(Organized by Electrical Engineering Technical Division IEM)

**Date** : 14<sup>th</sup> December 2019 (Saturday)  
**Time** : 9.00am to 11.00am (*Refreshment will be served at 8.00am*)  
**Venue** : Auditorium Tan Sri Chin Fung Kee, Wisma IEM, PJ  
**Speaker** : Ir. Shamila Ariaratnam & Mr. Steven Rajah Ponnampalam

**BEM Approved CPD/PDP Hours: 2**

**Ref Number: IEM19/HQ/539/T**

### SYNOPSIS

MRI is a way of obtaining detailed images of organs and tissues throughout the body without the need for x-rays or "ionizing" radiation. Instead, MRI uses a powerful magnetic field, radio waves, rapidly changing magnetic fields and a computer to create images that show if there is an injury, disease process or abnormal condition present. MRI has evolved to become one of the most valuable diagnostic tools ever developed. The powerful magnetic field of the MR system can attract objects made from certain metals and cause them to move suddenly and with great force. This can pose a possible risk to the patient or anyone in the object's "flight path". Hence, one of the most important elements in delivering this valuable imaging service involves maintaining a safe environment. MRI screening provides patients and doctors with an invaluable diagnostic resource but as with any tool, it is most effective when used in accordance with proper guidelines and safety measures. The Healthcare and Biomedical Engineering Working Group under the Electrical Engineering Technical Division is organizing a talk focusing on MRI safety and welcomes everyone to join in.

### SPEAKER'S BIODATA

Ir. Shamila graduated from Universiti Putra Malaysia (UPM) with a Bachelor's Degree (Hons) in Electrical/Electronics Engineering in 2000. She started her career with TriSystems Engineering Sdn Bhd in February 2001, as an Engineer and resigned as Project Engineer in 2004. Ir. Shamila was selected to represent Malaysia at the International Association of Traffic and Safety Sciences (IATSS) Forum, a 55-day leadership training program in Japan for young professionals from Asian countries hosted by Honda Motor Corporation, Japan. After she returned from IATSS Forum in 2004, she joined Matsushita Toshiba Picture Display (M) Sdn Bhd as the Safety and Health Engineer, a position which she held from August 2004 – March 2007. She completed and passed her Safety and Health Officer Training with NIOSH in October 2006. Concurrently, she pursued her Master of Business Administration from University of Strathclyde part-time and graduated in 2008. She joined Subang Jaya medical Centre in April 2007, now known as Ramsay Sime Darby Healthcare Hospitals as a Quality Executive. She rose through the ranks from an Engineer to Manager of the Biomedical Engineering Department before resigning to form her own company. Now she is self-employed under Armamentarium Consulting as a Freelance Healthcare & Biomedical Engineering Consultant, Trainer and Auditor.

Mr. Steven graduated from Kolej Damansara Utama with a Diploma in Engineering in 2004. Currently, Mr Steven is the Principal Engineer at Primed Medical Sdn. Bhd. Some of his responsibilities are managing the preventive maintenance services, scheduled and unscheduled breakdowns, new hospital project tenders & technical specifications, inventory of spare parts, equipment updates from the manufacturers, equipment software as well as testing & commissioning. He has also provided numerous technical and application training. Mr Steven is registered with the Board of Engineers Malaysia as an Inspector of Works and a Qualified Technician with the Malaysia Board of Technologists.

### FEE ANNOUNCEMENT

(Effective: 1<sup>st</sup> October 2017)

#### Members:

- (i) Registration Fee: No Charge
- (ii) Administrative Fee:
  - (a) Online RM15
  - (b) Walk-In RM20

#### Non-Members:

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

- Limited seats are available on a "first come first served" basis (maximum 100 participants).
- To secure your seat, kindly register online at [www.myiem.org.my](http://www.myiem.org.my)

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#### CPD Hours Validation:

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Signature: .....

**Ir. Francis Xavier Jacob**  
**Chairman,**  
**Electrical Engineering, Technical Division IEM**