



# The Institution of Engineers, Malaysia

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## TECHNICAL VISIT TO DEWAN FILHARMONIK PETRONAS

(Organised by Engineering Education Technical Division, IEM)

**Date :** 06<sup>th</sup> August 2014 (Friday)  
**Time :** 10.00 am – 01.00 pm  
**Venue :** Level Two, Tower Two, PETRONAS Twin Towers, Kuala Lumpur City Centre, 50088 Kuala Lumpur.  
**Transport:** Coach will be provided. Participants are to assemble at 9.00 a.m. at IEM office, Bangunan Ingenieur, Petaling Jaya. The Coach will depart from IEM at 10.15 a.m. sharp.

**BEM Approved**  
**CPD/PDP Hours: 2**  
**Ref No: IEM14/HQ/257/V**

### SYNOPSIS

Dewan Filharmonik Petronas is Malaysia's first purpose built concert hall for classical music by Malaysia's oil company, Petronas.

Of interest to engineers will be the:-

- concert hall which is an 885-seat jewel box shaped room.
- The space which is designed to serve every kind of music.
- The room which is fully equipped for professional recording and fully isolated from the surrounding environment.
- concealed movable ceiling that can change the acoustic volume of the room from as little as 13300 m<sup>2</sup> to 18975 m<sup>2</sup>. This feature was designed by acoustic consultant, Kirkegaard Associates.
- pipe organ in this hall which has three manuals and a pedal division, mechanical couplers, electric stop action, and an electronic memory system for the pre-selection of registration combinations. There are 2,977 pipes ranging in length from the smallest (an inch) to the towering 32 foot rank in the pedal division.
- Design of the hall which is by Abbey Road Studios of EMI Group (UK) and constructed by Audio Design Group.
- The hall showcase an exceptional architecture complemented by a high ceiling of 81 feet.
- The perforated metal ceiling vault appears solid but is in fact acoustically transparent, allowing sound to travel to an upper ceiling. Special absorptive panel on the side walls further enhance the acoustics by adjusting the resonance in the hall.
- The audience chamber is mounted on resilient pads and structurally isolated from the rest of the complex in order to further isolate the hall from the noisy surroundings.
- The choice of all materials and finishes further enhance the acoustic quality.



### TENTATIVE ITINERARY

Time	Tentative Itinerary	Commitment Fee (Non Refundable & Non Transferable)
10.00 am	Assemble at Bangunan Ingenieur, PJ/ Registration	<b>IEM member: RM30.00</b> <b>Non IEM member: RM60.00</b>
10.50 am	Arrival at Dewan Filharmonik Petronas	
11.00 am	Hall visit	
12.30 pm	Q&A	
01.00 pm	End of Visit	

- ✓ The visit is strictly limited to only **forty (40) participants** registered on a **first come, first pay** basis.
- ✓ Interested members could
  - register and pay online at IEM website (<http://www.myiem.org.my>); OR
  - register by returning the appended registration form by **01 August 2014 (Friday)**.
- ✓ Cheques are to be made payable to "The Institution of Engineers, Malaysia".
- ✓ **The commitment fee must be settled prior to the visit.**

**Ir Assoc. Prof. Dr. Vinesh Thiruchelvam**  
**Chairman**  
**Engineering Education Technical Division, IEM**

TECHNICAL VISIT TO DEWAN FILHARMONIK ON 06 AUGUST 2014 REGISTRATION FORM (Fax: 03-7957 7678 Email: <a href="mailto:jenifer@iem.org.my">jenifer@iem.org.my</a> )	
I wish to participate in the above visit on <b>08 AUGUST 2014 (FRIDAY)</b> . I enclose herewith cash/cheque ..... for the amount of RM..... as my commitment fee for the visit.	
Name	
IEM Membership No.	
NRIC No.	
Company Name	
Email Address (please write clearly as the confirmation letter will be sent via email)	
Mobile No.	
Fax No.	

I will be participating in the visit at my own risk and hereby indemnify fully the IEM from all claims arising from any injury, damage or loss that may be sustained by me.

.....  
Signature

.....  
Date