



THE INSTITUTION OF ENGINEERS, MALAYSIA

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EVENING TALK ON "THE COLLECTION SURFACE METHOD (CSM): A HIGHLY EFFECTIVE LIGHTNING PROTECTION AIR TERMINALS PLACEMENT METHOD"

(Organised by the Electrical Engineering Technical Division, IEM)
BEM Approved CPD/PDP Hours: 2 Ref No: IEM15/HQ/144/T

Date : 25th May 2015 (Monday)
Time : 5.30 pm– 7.30 pm
(Refreshment will served in 2nd Flr at 5.00pm)
Venue : C&S & TUS Lecture Room, 2nd Floor, Wisma IEM
Speaker : Mr. Hartono Zainal Abidin

SYNOPSIS

The Collection Surface Method (CSM) of lightning protection air terminals placement was developed 20 years ago and it is based on data collected and analysed from more than a hundred lightning damaged buildings in Malaysia and Singapore. This CSM method has undergone close scrutiny by lightning protection experts in Australia and by the IEC TC81 expert group. The method has since been incorporated as an improved air terminals placement method in the Australian (AS1768:2003) and IEC (IEC62305:2006) lightning protection standards. Recent studies by lightning protection experts in Europe suggest that air terminals placement according to this CSM method can provide up to 98 percent efficiency in lightning interception.

BIODATA OF SPEAKER

Mr Hartono Zainal Abidin graduated with BSc. (Hons) in Electrical and Electronic Engineering, 1979 from Loughborough University, UK. He has been actively involved in lightning protection as an engineer in the telecommunication industry since 1980. He has been conducting forensic analysis and studies on lightning damaged low voltage electrical and electronic systems in various industries and also in buildings. Mr Hartono has been selected as a member of CIGRE C4.410, the study group on the protection of very tall structures against lightning hazard and is a Senior Member of IEEE (USA)

ANNOUNCEMENTS TO NOTE:

- Preferential admission to talk shall be accorded to IEM members (**pre-registration and online registration are NOT required**). (**telephone and/or fax reservation will NOT be entertained**)
- **Non members** may also attend the talk but will be charged a registration fee of **RM50** and an administrative fee of **RM15**.
- For affiliate members, there will be no registration fee. However, they are requested to produce their membership card as proof of membership. For the list of affiliates, please refer www.myiem.org.my/content/memorandum_of_understanding-469.aspx.
- Limited seats are available on a "first come first served" basis (maximum 110 participants).
- IEM members are required to produce your membership cards for confirmation of attendance (CPD purpose).
- Latecomers will not be allowed to enter if the lecture hall is full nor be entitled to CPD. *IEM members who fail to produce their membership cards will be charged a fee of RM25.00.*

FUNDS FOR IEM BUILDING FUND (WISMA IEM)

- Kindly be informed that IEM will be charging participants **RM15** as administrative fee for talks organized by IEM.
 - The fee would be used to cover overhead costs, building maintenance expenses as well as to support the purchase of the new building.
 - All contributions will be deeply appreciated by IEM
 - Students are however exempted.
- Your understanding is greatly appreciated.

CPD HOURS CONFIRMATION

Name :

Membership No:

Signature:

Ir. Lam Sing Yew
Chairman
Electrical Engineering Technical Division, IEM