



### Report on Introduction to BIM For Civil and Structural Engineers

by Ir. Chong Chee Meng

Ir. Chong Chee Meng is currently the Deputy Chairman in the Civil and Structural Engineering Technical Division (CSETD).

The Civil and Structural Engineering Technical Division (CSETD) organized an evening talk on 'Introduction to BIM for civil and structural engineers'. The talk was held on 17<sup>th</sup> January 2017 at Auditorium Tan Sri Prof Ching Fung Kee, Wisma IEM. The speaker was Ir. Mohd Faiz, who has been actively involved in the implementation of BIM for JKR projects and is qualified in Revit architecture and structure. He also actively conduct BIM training to the industry and academia.

This talk was chaired by Ir. Yasotta Chetty, the committee member of CSETD and was attended by 37 participants. The 37 participants included engineers from engineering consultants, contracting firms, government agencies and local authorities as well as faculty members from local institutions of higher learning.

Ir. Faiz commenced his talk by explaining the definition of BIM and its process. BIM is Building Information Modelling and the process consist of BIM setup, BIM modelling, clash detection and resolution, coordinated BIM model, construction model, change management and constructability analysis and as-built model. He also clarified that the function of JKR BIM unit is to develop the BIM template for the industry.



**Ir. Faiz delivering the talk**

Ir. Faiz reiterated that there are several BIM maturity levels. Level 0 is 2D CAD and 2D manual. Level 1 is 2D visualization to intelligent 3D modelling. Level 2 is integrate multiple models into single federated model by using local or web based technology. Level 3 is integration of multiple model servers of other networked based technologies.

He also shared with participants the JKR projects completed using BIM such as SPRM administration building in Shah Alam, National Cancer Institute at Putrajaya, Mara Banting Colleague, additional new block for Putrajaya hospital, etc.

At the end of the talk, there were questions raised by the audience which Ir Faiz answered and clarified in more details. At the end of the event, the IEM Vice President, Ir. Elias presented a token of appreciation to Ir. Faiz.



**Presentation of memento by Ir. Elias to Ir. Faiz**