



**Talk on “Interfacing Building Information Modelling (BIM) with structural analysis and design”, presented by: Mr. Yannick Franken / Dr Jean-Pierre Rammant, Nemetschek Scia by Ir. Yasotha Chetty**

**Ir. Yasotha Cheety** is currently a committee member in the Civil and Structural Engineering Technical Division.

On 14<sup>th</sup> October 2014, the C&S Technical Division held a talk on interfacing Building Information Modelling (BIM) with structural analysis and design. This talk was given by Mr. Yannick Franken and Dr Jean Pierre Rammant of Nemetschek Scia, an European software company that is a member of the buildingSMART Alliance and uses openBIM.

The talk begun with an introduction to BIM and the maturity levels in its use in the industry globally. This was followed by a review of the historic approach in developing BIM models, its shortcomings and the openBIM approach. Mr. Yannick Franken explained that openBIM is a universal approach based on open standards and workflows using the building SMART Data Model; and allowed the freedom to choose project partners and software to be used whilst keeping clear ownership and responsibility.

Mr. Yannick Franken explained further that OpenBIM allowed engineers to have a standalone BIM model for analysis, independent of the structural (drawing) model, thus allowing engineers control over the analysis model and CAD technicians the structural model. It also allowed each discipline to maintain its own BIM model that is content rich.

Talk proceeded with demonstration of use of BIM in design and analysis using Scia software and examples of projects where openBIM approach was used in structural engineering analysis and design.

The session ended with a lively question and answer session with Dr Rammant and active participation from the audience.



Left: C&S Engineering Technical Division Chairman, Ir. Hooi Wing Chuen, Mr. Yannick Franken and Dr Jean Pierre Rammant of Nemetschek Scia.

More information on BIM and openBIM can be found on these websites;

BIM 101                  Autodesk BIM 101

Open BIM                [www.buildingsmart.org](http://www.buildingsmart.org)

BIM in Malaysia      [www.bimcenter.com.my](http://www.bimcenter.com.my)