



One Day Seminar on Technology & Selection of Cast Resin Transformer

by Chan Chi Yen

Chan Chi Yen is currently an electrical engineer in a Mechanical and Electrical Engineering Consultancy Company. Apart from involving in Electrical Engineering Technical Division (EETD) of the IEM, he also contributed in National Working Group of ASEAN Engineering Inspectorate (Electrical Installation).

The Electrical Engineering Technical Division (EETD) has organized one day seminar on Technology & Selection of Cast Resin Transformer on 28th August 2018. There are more than 40 participants attended the seminar. The aim is to provide participants with some comprehensive knowledge of Cast resin/dry type transformer from a design perspective in respect of the development course of the industry, the merits & weakness of different schools of insulation process, and future direction of technical innovation.

EETD representative, Ir. Ng Win Siao kicked start the seminar by welcoming today speaker from SUNTEN Elektrik (Malaysia) Sdn Bhd. The first speaker is Madam Liu Yan. She is a professor-level senior electrical engineer and a distinguished expert in China transformer industry, has over 28 years of experience and expertise in the technical design, research and manufacture of cast resin transformers. Currently, she is General Manager and Chief Engineer of SUNTEN Electric Co., Ltd. She started the seminar with the overview of Cast Resin Transformer Technology. She explained the initial design & program development for the dry type transformer. She also highlighted the advantages and the future movement of the dry type transformer. On the top of that, she talked about the comparison between copper and aluminium winding in a transformer.

The next speaker was Madam Zhou Fen. A senior electrical engineer with nearly 30 years of experience in electrical engineering design. She talked about how to choose the right model for transformer. Some of the key factors to consider includes the type of transformer, capacity and quantity required, transformer winding connection, short circuit impedance of the transformer, voltage regulation method, insulation class of the transformer, and operation location. In addition, the operational cost of the transformer is also required to be considered.

After lunch, the speaker is Mr. Xiao Ming. He has been engaged in Product Testing and Certification to International Standards of cast resin transformers and reactors for over 29 years. He showed the audience on the testing, verification and certification of a transformer. He explained the C2, E2, F1 test and also the factory acceptance test (FAT) of a transformer. After that, he shared some of his viewpoints on operational and maintenance for a transformer.

Lastly, Madam Liu Yan continued the seminar with her topic on “Cast Resin Transformer Technology Certification, Design Verification & Fundamental Research.” The seminar ended with Ir. Ng presented a token of appreciation to our speakers today.



Participants of the seminar.



Ir. Ng presented a token of appreciation to speakers.