

One-Day Course on Corrosion Control of Steel Structures



CHEMICAL ENGINEERING TECHNICAL DIVISION

by Ir. Prof. Dr Dominic Foo Chwan Yee

THE One-day Course on *Corrosion Control of Steel Structures by Cathodic Protection* organised by the Chemical Engineering Technical Division (CETD) held in late 2011 has received a favourable response from the 30 participants whom were mostly consisted of industrial practitioners.

This course was delivered by Mr. Kang Kim Ang and Engr. Ong Wei Rex from CORRTRON Group of companies. The course was divided into five sessions, with the first three sessions held in the morning, and the remaining two sessions in the afternoon.

Mr. Kang kick-started the first session by explaining about the fundamentals of corrosion. Other topics such as the electrochemical reactions of corrosion, forms of corrosion, and the importance of corrosion prevention were also discussed during this session.

The second session continued with the elaboration on the principle of cathodic protection, followed by the third session which covered the in-depth explanation on the main type of cathodic protection and its criteria in various international codes and standards. To spice up the session, several interesting photos related to the applications of cathodic protection system in some industrial projects were shown to the participants.



The fourth session was conducted after the lunch break by Engr. Ong. During the session, the tutor explained about cathodic protection electrical measurement and monitoring methods, and the maintenance of cathodic protection system. The session ended with a few lab-scale testing setups in the classroom, providing the participants with hands-on training on setting up a simple cathodic protection system and taking cathodic protection measurements.

Last but not least, in the fifth session, various types of special cathodic protection survey techniques currently used in the industry were discussed. Topics such as the technique to conduct these special surveys and the interpretation of the data collected were also covered during this session.

The course ended with the presentation of certificates of attendance to the participants. On behalf of CETD, Associate Professor Ir. Dr Thomas Chong Shean Yaw presented a token of appreciation to the course tutors, Mr. Kang Kim Ang and Engr. Ong Wei Rex, and thanked them for conducting the beneficial one-day course. ■