

Technical Seminar: Mobile Apps for Construction Safety and Quality Management (Jointly Organised by CAD, AMC and YMC)

By Ms. Celia CHENG

Site safety and quality management are important elements to improve the construction industry in Hong Kong. A technical seminar, which was jointly organized by Control Automation & Instrumentation Division (CAD), Associated Members Committee (AMC) and Young Members Committee (YMC), was held on 11 August 2017 to discuss the development of mobile technology applied in construction projects. The seminar was presented by Mr. Stephen AU, the managing director of MTech Engineering Co., Ltd.

In the beginning of this seminar, Mr. AU illustrated the strong positive correlation between construction quality and safety. In a research, both recordable injury rate and first-aid rate were found increased with the number of defects and reworks. Therefore, some mobile applications were developed to promote safety and quality in construction projects.

Mr. AU introduced a mobile application which was designed for both corrective and preventive actions. The potential construction risk or defects identified during site inspection can be reported and recorded through the mobile application. By using a cloud-based mobile platform, the associated parties or person-in-charge will be informed immediately. Therefore, timely feedbacks and corrective actions can be implemented to minimize the potential hazards. To prevent potential safety problems, systematic and regular site inspection will be schedule and recorded by an easy-to-use interface in the mobile application.

Mr. AU explained that adopting the cloud computing with mobile devices enabled real-time construction QC/QA management that significantly cut costs, improve productivity and quality of projects.

In addition, Mr. AU also outlined the advantages in the view of project management. The use of mobile application can increase the traceability of the defects, safety concerns and associated follow-up actions. The records can be utilized for further analysis in dashboard control. Mr. AU also demonstrated to generate reports through the mobile applications in this seminar.

The seminar presented by Mr. AU increased the understanding of current mobile technology application in construction industry, and inspired all participants to be innovative to promote safety and quality management by using up-to-date technology.



<Photo Caption: The speaker Mr. Stephen AU (middle) receiving souvenir>