Joint Technical Seminar on
Building Information Modeling

Details
Date : 25 October 2021 (Monday)   Venue   : Online Seminar via Zoom
Time : 6:30pm (Registration)
         6:45pm – 8:00pm

Programme Highlight:
BIM-AM Deployment in Existing Buildings with Asset Digitalisation to Foster Smart City Development

EMSD has pioneered the development of Building Information Modelling for Asset Management (BIM-AM) in recent years and promoted it to the trade for E&M system operation and maintenance (O&M) while BIM-AM has been one of the engineering solutions to provide digitized Electrical and Mechanical (E&M) engineering solutions and to enhance our E&M service quality in tandem with smart city development.

After the asset digitalization pilot project of EMSD HQs, EMSD engaged temporary workforces under the Anti-Epidemic Fund on one hand to ease the worsening unemployment situation due to the COVID-19 epidemic and on the other hand to facilitate the digitalisation work for E&M assets in more than 200 selected existing government buildings, including government offices, clinical, municipal and recreational facilities since September 2020. The asset digitalization works cover site surveying, digitalized E&M asset data and O&M document, construction of building information models retrospectively, and provision of Radio Frequency Identification (RFID) tags for a few hundred types of major E&M assets etc.

The digitalized E&M asset data together with BIM models and the new effective variant namely "BIM-AM Lite" models (3D objects onto 2D floor plans) were deployed to the EMSD self-developed BIM-AM Systems for asset data management, electronic works order handling, remote equipment/system monitoring and fault diagnosis; on-site asset locating and fault rectification. It has been proven effective in streamlining the workflow in O&M, facilitating responsive incident handling and sustainable asset management. The achieved time-saving on fault clearance could further minimize E&M system downtime and improve our public service delivery.

To well manage the massive built-asset information for quality assurance and potential BIM auditing, EMSD commenced the establishment of the first on-premises ISO19650 Common Data Environment (CDE) for Asset Information Management application in Hong Kong. To conclude, the overview of the implementation of BIM-AM for EMSD and its way forwards with the aid of Internet of Things (IoT) would be covered in this technical seminar.

Speaker:

Ir CHAN Hor Yin, Steve

Senior Engineer / Building Information Modelling, Electrical and Mechanical Services Department

With his years of project & maintenance management and I&T development experiences, he is leading his team to develop solutions for enhancement of workflow and O&M services by integrating Building Information Modeling (BIM) with Asset Management (AM). The BIM-AM System was granted with patent in 2016 and he also leads his team to establish the EMSD BIM-AM Standards and Guidelines for reference by the building industry and liaise with CIC to arrange BIM-AM training for the trade. After successful integration of the newly developed Government-Wide IoT Network (GWIN) with the BIM-AM Systems to realize smart Facility Management (FM) and digital twin for smart building application, he is collaborating with other government bureau/ departments for deploying IoT trial applications with a view to facilitate city management and smart city development.

Language:

Cantonese with English Terminology

CPD Certificate:

Only accepted register participants will receive an electronic CPD certificate: i.e. sharing of the register link to others are prohibited and the organizer reserves the right to disqualify and terminate those non-properly registered participants to attend the Seminar.

Registration & Enquiry:

The Seminar is free of charge and prior registration is required. For registration, please register ONLINE via the website of CIBSE-HKR – https://bit.ly/3lfSge2 and the maximum number of participants to be 100. Application will be accepted on a first-come-first-served basis. Successful members will be informed by confirmation email with a zoom meeting link few days before the event. Transfer or sharing of the registration is prohibited.

To facilitate the time efficient, registration will be done when entering the Seminar so please provide your membership number and name (same as registration name) when joining the online session.

For enquiry, please contact Ir Dr. Horace KW MUI at 2766 5835 or email at horace.mui@polyu.edu.hk.