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### **Supporting Organizations**

ASHRAE Hong Kong Chapter  
Chartered Institute of Housing Asian Pacific Branch  
Energy Institute (Hong Kong Branch)  
Greater China Institute of Property Management  
The Hong Kong Chapter of the International Facility Management Association  
The Hong Kong Institute of Engineers - Safety Specialist Committee  
The Hong Kong Institute of Engineers - Control, Automation Instrumentation  
The Hong Kong Institute of Housing  
The Royal Institution of Chartered Surveyors Hong Kong  
The Society of Operations Engineers (Hong Kong Region)

### **Technical Seminar:**

#### **EMSD Building Information Modelling - Asset Management (BIM-AM) Showcase Project for Integrated Lifecycle Operation and Maintenance Management**

**Date** : 23 March 2017 (Thursday)  
**Venue** : Lecture Theatre, 7/F, EMSD Headquarters, 3 Kai Shing Street, Kowloon  
**Time** : 19:00 - 20:30, Registration will start at 18:30

### **Programme Highlights**

Since April 2014, EMSD has commenced a pilot project to study Building Information Modelling (BIM) application in asset management (AM) for building operation and maintenance (O&M) of electrical and mechanical (E&M) facilities. EMSD has built a BIM model for selected areas in the EMSD Headquarters with having explored various retrospective scanning technologies including laser scanning, depth sensing and photogrammetry.

Subsequent to the BIM model construction, an integrated BIM-AM System has been developed to take operation and maintenance in buildings to a new level of convenience and efficiency via the tailor-made desktop and mobile terminal for the four key generic user models, namely client, helpdesk, frontline and supervisor. The BIM-AM System integrates visualisation, asset management and various electronics systems, including Building Management System (BMS), Closed Circuit Television (CCTV) system, Radio Frequency Identification (RFID) scanning tool, Real Time Location System (RTLS) and ad-hoc wireless devices. Together with a user-friendly interface, the BIM-AM System can significantly streamline the fault reporting, handling and monitoring process for not only in-source but also out-source arrangements.

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This pilot project has received Construction Industry Council's "BIM Excellence Awards 2014", recognizing EMSD's innovative contribution in broadening and deepening the BIM application.

The honourable speaker of the talk will share their knowledge and experience on the development of BIM-AM System of the pilot project. He and his BIM team members would also give a live demonstration of a showcase using an AHU room model of the EMSD Lecture Theatre, where you attend, to exhibit the benefits of the BIM-AM platform. All these would be good indicators for productivity improvements.

### **Biography of Speaker**

Ir CHAN Hor-yin, Steve, BSc (Hons), PgD in IMC, MCIE, MHKIE,

Ir CHAN is a senior engineer of EMSD. Before that, he worked in Highways Department for Traffic Control and Surveillance System projects in HK-Shenzhen Western Corridor & Deep Bay Link, and Route 8; MTRC for airport railway project; and HK Telephone for broadband & video services. His particular passion has been for exploring new ideas, adopting innovative technologies and striving to develop the best engineering solution for the organization. With his over 20 years of project management and maintenance management experiences, he is leading his team to develop a practical solution for enhancement of workflow and operation and maintenance services by integrating Building Information Modelling (BIM) with Asset Management (AM). The BIM-AM pilot project led by Ir CHAN won the CIC BIM Excellence Awards in 2014. He has also published and presented his works related to BIM-AM in some prominent conferences and symposiums in recent years. In Aug 2016, the technical paper entitled "BIM-Enabled Streamlined Fault Localization with System Topology, RFID Technology and Real-Time Data Acquisition Interfaces" was presented in the IEEE International Conference on Automation Science and Engineering in U.S.

### **Free**

Free of charge, and 1.5-hour CPD Certificate from BSOMES will be available.

### **Media**

Cantonese supplemented with English terminology

### **Registration & Enquiry**

For registration, please complete Registration Form in the following "[On Line Registration Link](#)". The maximum number of participants is 180. Priority will be given to the members of the organizers and supporting organizations. The deadline of application is 10 March 2017 (Friday). Name of successful members will be informed by confirmation email no later than 18 March 2017 (Saturday), which has to

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be presented at the registry of the venue entrance for verification. If the applicants have not received the confirmation e-mail on or before 20 March 2017, their applications will be regarded as not successful.

If typhoon signal no. 8 or black rainstorm signal is in force and still hoisted after 5:00 pm of 23 March 2017, the talk would be cancelled without further arrangement or notification.

**Enquiry**

For enquiry, please contact Mr. W. L. WONG at 6583 6371 or e-mail to [bsomeshk@gmail.com](mailto:bsomeshk@gmail.com)