



# The 7<sup>th</sup> Greater Pearl River Delta Conference on **Building Operation and Maintenance**

**BSOMES**

6<sup>th</sup> December 2016 @ Chiang Chen Studio Theatre, The Hong Kong Polytechnic University

## ***SMART Facilities Operation and Maintenance***

### CONFERENCE THEME

This annual conference is to promote the best practices of building services operation and maintenance to the society of Hong Kong and the counterparts in the Greater Pearl River Delta (GPRD) region. The conference embraces the following sub-themes:

- *Sustainability*
- *Maintainability*
- *Accessibility*
- *Reliability*
- *Technology*

### WHO SHOULD ATTEND

Property developers, building operation and maintenance executives, facility management professionals, green building professionals, engineers, designers, researchers, and academics involved in the mechanical, electrical and building services disciplines of the building sector.

For details, please visit our website at  
<http://www.bsomes.org.hk>

### FEES (per person)

	EARLY BIRD (on or before 20 <sup>th</sup> Nov 2016)	STANDARD (after 20 <sup>th</sup> Nov 2016)
Member of BSOMES/Co-organizers or Supporting Organizations*	HK\$700	HK\$800
Non-member*	HK\$900	HK\$1,000
Full-time Student**	HK\$100	HK\$150

\* Member of BSOMES/Co-organizers or Supporting Organizations or Non-member fee includes proceedings, coffee breaks and lunch

\*\* Full-time student fee includes proceedings and coffee breaks

### CPD CERTIFICATE

6 hours CPD certificate issued by BSOMES will be provided at the end of conference.

### REGISTRATION

1. Please register online via: <https://goo.gl/forms/Ut9vd0l1relfi1Lo1> and send a crossed cheque payable to "BSOMES" address to P.O. Box 95872, Tsim Sha Tsui Post Office, Attn: Ir Dr. CS Wong.
2. At the back of the cheque, please kindly state "GPRD2016", name of your company/organization, contact person, contact phone number and email address.
3. No refund may be made but substitute delegate is allowed.
4. e-Receipt will be issued to the person by email.
5. For enquiry, please email to [gprd2016@bsomes.org.hk](mailto:gprd2016@bsomes.org.hk)

### Organizer:

Building Services Operation and Maintenance Executives Society (BSOMES)

### Co-organizer:

Department of Building Services Engineering, The Hong Kong Polytechnic University  
The Macao Institution of Electrical and Mechanical Engineers (AEEMM)  
South China University of Technology (華南理工大學)

Official language of the Conference is English

# PROGRAMME

08:30	Registration	
	Welcome Address	Ir Dr. CS WONG – Chairman, Conference Organizing Committee, BSOMES
	Opening Ceremony	
	1st Session: Sustainability	Chair: Dr. Paul SAT, Chairman, Technical Program Committee
	Keynote Speech: Towards Knowledge Base Energy Management? Ir Cary CHAN – Executive Director, Hong Kong Green Building Council	
09:00	Retrofitting Existing Buildings: A Quantitative Approach to Energy Project Evaluation	Dr. CK LEE, CityU
10:15	Green Building Operation and Maintenance: Case Study of a Commercial Building with BEAM Plus Provisional Platinum Rating (Existing Buildings)	Ir Alan HUNG, BEC
10:45	A Low-carbon Approach to Enhancing Sustainability of a Building	Ir Walter AU, Lik Kai
	Analysis of Standby Power Consumption for Lifts and Escalators	Ir Dr. Sam CM HUI, THEi
	1st Session Q&A	
	Poster Presentation Briefing - A Case Study to Investigate the Possible Root Causes of Blockage of Draining System for Improving Operation Efficiency and Public Hygienic Conditions	Mr. Peter LAM, HKFEMC
	Coffee Break / Exhibition	
	2nd Session: Maintainability	Chair: Ir Chris TING, Vice Chairman, Conference Organizing Committee, BSOMES
	Keynote Speech: Performance Evaluation for SMART Buildings: From Fundamentals to Applications Ir Dr. Joseph LAI – Associate Professor, Department of Building Services Engineering, PolyU	
11:10	Developing Operation and Maintenance Key Performance Indicators for Office Buildings	Dr. Raymond CS MAN, IVE
12:15	Research of Resource Circulation Housing Design Method and SMART Facilities Operation and Maintenance Management Mode 資源循環住宅設計方法與SMART設施運行維護管理模式研究	Prof. SU Yuan, Dalian University of Technology, China 蘇媛 教授, 大連理工大學
12:40	Monitoring Based Commissioning (MBCx) Case Study and Sharing	Ir Gary HUI, Energenz
	A Hybrid Control for Chiller Sequencing Control with Enhanced Robustness under Uncertainties	Dr. LIAO Yundan, CityU
	2nd Session Q&A	
	Luncheon / Exhibition	
	3rd Session: Accessibility and Reliability	Chair: Ir Dr. CS WONG, Chairman, Conference Organizing Committee, BSOMES
	Keynote Speech: Ir TAI Tak-Him, Deputy Director of Trading Services, Electrical and Mechanical Services Department, HKSAR	
14:00	Towards Smart Operation & Maintenance (O&M) by Building Information Modelling (BIM) and Asset Management (AM) Technologies	Ir CHAN Hor-Yin, EMSD
15:00	Implementing Building Information Modelling in Building Services Engineering in Hong Kong: A Focus Group Study	Dr. Roger TH NG, IVE
15:30	BIM for Maintenance: Smart... or not?	Mr. Bruno LHOPITEAU, Siveco China
	Smart Building Maintenance with Information Model	Ms. Karen KL SHI, ARUP
	3rd Session Q&A	
	Coffee Break / Exhibition	
	4th Session: Technology	Chair: Mr. Keith CHUNG, Incoming President, BSOMES
	Keynote Speech: Novel Techniques to Reveal Defects Hidden in Wall-covered Building Risers Ir Dr. Peter TSE, Associate Professor, Department of Systems Engineering & Engineering Management, CityU	
15:55	Novel In-building Hydro Energy Recovery Turbine in Operation	Mr. Daryl NG, Sino Green
	Conversion of Belt Drive VSD Fan with EC Plug Fan for VAV AHU System in Office Building	Dr. Paul SAT, HKGBC
17:30	Achieving Energy Efficiency in a Hotel through Implementation of Intelligent Fan Coil Unit and an Extra Bedside Temperature Control	Ir Antonio CM CHAN, REC
	Case Study of Energy Saving Potential through Combined Use of Chiller Plant Optimization and Connected Service	Ir Timothy LEE, Johnson Controls
	4th Session Q&A	
	Closing Address Ir Martin Wan – President, BSOMES	
	Programme ends	

Remark: For information only, the Organizer reserves the right to modify and update without prior notice.

## SUPPORTING ORGANIZATIONS:

Architectural Services Department, HKSAR  
ASHRAE Hong Kong Chapter  
Asian Institute of Intelligent Buildings  
BEAM Society Limited  
Buildings Department, HKSAR  
Business Environment Council  
Chartered Institute of Housing Asian Pacific Branch  
Construction Industry Council  
Department of Systems Engineering and Engineering Management, City University of Hong Kong  
Drainage Services Department, HKSAR  
Electrical and Mechanical Services Department, HKSAR  
Energy Institute Hong Kong Branch  
Environment Protection Department, HKSAR

Greater China Institute of Property Management  
Hong Kong Association of Energy Engineers  
Hong Kong Green Building Council  
Hong Kong Hotels Association  
Housing Department, HKSAR  
International Facility Management Association Hong Kong Chapter  
Smart Engineering Asset Management Laboratory, City University of Hong Kong  
The Chartered Institute of Building (Hong Kong)  
The Chartered Institute of Building Services Engineers Hong Kong Branch  
The Chartered Institute of Plumbing and Heating Engineering – Hong Kong Branch  
The Environmental Management Association of Hong Kong  
The Hong Kong Air Conditioning and Refrigeration Association Limited  
The Hong Kong Association of Property Management Companies

The Hong Kong Federation of Electrical and Mechanical Contractors Limited  
The Hong Kong Institution of Engineers – Building Division  
The Hong Kong Institution of Engineers – Building Services Division  
The Hong Kong Institution of Engineers – Control, Automation and Instrumentation Division  
The Hong Kong Institution of Engineers – Gas & Energy Division  
The Hong Kong Institute of Facility Management  
The Hong Kong Institute of Housing  
The Hong Kong Institute of Surveyors  
The Institution of Fire Engineers (Hong Kong Branch)  
The Royal Institution of Chartered Surveyors – HK Board  
The Society of Operations Engineers Hong Kong Region  
Water Supplies Department, HKSAR