

**Building Management Systems:**  
**Modern Application, Education and Training Developments**  
**in China (Mainland), Hong Kong and Macau**

中國(內地)、香港及澳門三地：  
樓宇自控系統的應用、教育及培訓發展



Contemporary buildings and systems demand a very high standard of competence from designers, installers and operators to achieve the functionality necessary for sustainable development. The complexity of building services installations requires detailed control and monitoring of the building performance. The Building Management System (BMS) is the best tool for this.

The increasing importance of energy use has impacted building operations significantly, and BMS can assist to integrate and regulate the energy use. Meanwhile, a better living environment is another issue for sustainable city development, the controls on the indoor environmental quality for human comfort, health, and productivity etc. must also be addressed through an advanced application of BMS.

A one-day conference on the use of BMS in buildings has been organized by the HKBCxC with other co-organizers and supporters. The conference will be divided into two sessions.

The morning session will be focused on BMS in contemporary buildings in China, Hong Kong and Macau. Six current local BMS vendors (namely ATAL, Carrier-UTC, Delta, Honeywell, Johnson Control, and Siemens) will be invited to give presentations on contemporary applications of BMS in controls, commissioning, operations and energy management. Experience sharing and project evaluation on building performance will also be addressed. A discussion forum will be held after the presentations.

The afternoon session will be focused on BMS education and training to meet the industry's needs. Academic and professional bodies from China, Hong Kong and Macau will be invited to give their insights on the education and training for engineering students and trade professionals.

The conference is aimed at professionals and supervisory staff engaged in project management, design, contracting, and operation & maintenance management in the built environment industry.

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**24<sup>th</sup> November 2009**

**Chiang Chen Studio Theatre, Hong Kong Polytechnic University, Kowloon, Hong Kong**

Conference Language: English and Chinese (Putonghua)

CPD A CPD Certificate will be provided to delegates.

**Registration Form**

Fee: Regular fee HK\$350 including tea refreshments and Proceedings (lunch excluded);

Discounted fee HK\$300 for members of co-organizing and supporting institutions.

**EARLY BIRD REGISTRATION:** 10% discount for registration with payment received on or before 24/10/2009 (HK\$315 for regular fee and HK\$270 for discounted fee).

Students fee HK\$100 for full time students supported by academic institutions (lunch excluded), limited seats available.

Please make cheques payable to the Conference Treasurer:

**Building Services Operation and Maintenance Executives Society Hong Kong Limited**

Name: (Dr/Ir/Mr/Ms/Miss) \_\_\_\_\_

Company/ organization: \_\_\_\_\_

Position Title: \_\_\_\_\_

Contact Address: \_\_\_\_\_

Contact Phone: (Office) \_\_\_\_\_ (Mobile) \_\_\_\_\_

Fax #: \_\_\_\_\_ Email Address: \_\_\_\_\_

Institution Affiliated: \_\_\_\_\_

Cheque no.: \_\_\_\_\_ Amount (HK\$): \_\_\_\_\_

For enquiry: Mr. Jordan Kwong / Mr. Anthony Lai

Tel: (852) 2436 8613 / (852) 2436 8658 Fax: (852) 24361707

E-mail: ckkwong@vtc.edu.hk / sai9022@vtc.edu.hk

Please send the registration form with payment to:

HKBCxC c/o  
Department of Engineering  
IVE (Tsing Yi)  
20 Tsing Yi Road, Tsing Yi, N. T., Hong Kong

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**Organizer and Co-organizers:**

**Hong Kong Building Commissioning Centre, Vocational Training Council**  
**Department of Building Services Engineering, Hong Kong Polytechnic University**  
**Building Services Operation and Maintenance Executives Society**  
**Hong Kong Association of Energy Engineers**

**Supporters:**



Asian Institute of Intelligent Buildings (AIIB)

Architectural Services Department, The Government of HKSAR (ArchSD)

The Chartered Institution of Building Services Engineers, Hong Kong Branch (CIBSE-HKB)

The Energy Institute, Hong Kong Branch (EI-HKB)

Electrical and Mechanical Services Department, The Government of HKSAR (EMSD)

The Hong Kong Air Conditioning and Refrigeration Association Ltd. (ACRA)

The Hong Kong Institution of Engineers, Building Services Division (HKIE-BSD)

Department of Engineering, Hong Kong Institute of Vocational Education (Tsing Yi)

The Macau Institution of Engineers (MIE)

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<b>Time</b>	<b>Title</b>	<b>Speakers</b>
08:45 – 09:00	<b>Registration</b>	
09:00 – 09:05	<b>Welcome Speech</b>	<b>Ir Edmund KH Leung</b> SBS OBE JP Hon. Advisor of HKBCxC, Chairman of Energy Advisory Committee, Past President of HKIE
09:05 – 09:15	<b>Opening Speech</b>	<b>Ir Stephen HC Chan</b> JP Director of Electrical and Mechanical Services Department, HKSAR
09:15 – 09:40	<b>Keynote Speech</b> Resurrecting “EMS”	<b>Mr. David Robin</b> Chair of ASHRAE SSPC135 (BACnet)
09:40 – 09:45	<b>Group Photo and Souvenirs Presentation</b>	<b>All Guests, Speakers, and OC Members</b>
	<b>Session 1: Applications of BMS</b>	Chair: Mr. Greg Powell Department of BSE Hong Kong Polytechnic University
09:45 – 10:10	The Power of Open Integrated BMS platform: A case study to show how IBMS can improve building operation and energy efficiency	Mr. Dave Chan, Associate Director ATAL Engineering Ltd.
10:10 – 10:35	BMS Development in Hong Kong & Macau	Ir. William Yick, Advisor, Carrier UTC, Hong Kong
10:35 – 11:00	BMS at Work in Large Campus	Mr. Raymond Rae, VP of Delta Controls, and Mr. Cecil Man, General Manager of Hensen System Engineering Ltd.
11:00 – 11:15	<b>Refreshments</b>	
11:15 – 11:40	Megatrends in Application of BMS	Mr. Leo Leong, Sales Director Honeywell Building Solutions, North Asia
11:40 – 12:05	Sustainability Integrated Solutions through BMS	Ir KO Wong, Energy Solutions Director Johnson Controls, BE Asia
12:05 – 12:30	Problems of Sustainable Growth of Technology and Performance on BMS Industry in the Region	Mr. Andy Wong, Senior Manager of Sales and Marketing, Siemens Hong Kong
12:30 – 12:45	<b>Panel Discussion &amp; Souvenirs Presentation</b>	Chair: <b>Ir Otto LT Poon</b> BBS OBE Hon. Advisor of HKBCxC President of Federation of E&MCA Past President of HKIE
12:45 – 14:15	<b>Lunch</b> (Delegates to make own lunch arrangements)	

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Time	Title	Speakers
	<b>Session 2: BMS Education &amp; Training</b>	Chair: Ir CF Wong HKBCxC
14:15 – 14:35	BMS for Professional Building Services Engineers (TBC)	Ir Paul Chan Discipline Representative (BSS), HKIE
14:35 – 14:55	Building Management System – related academic programmes and subjects from BSE, PolyU	Ir Dr. Simon Deng Associate Professor, Dept. of BSE, PolyU
14:55 – 15:15	Professional education in energy management	Ir Dr. TT Chow, Associate Professor, Division of BST, CityU of HK
15:15 – 15:35	<b>Special Topic:</b> Experimenting the operation of future cities: 2010 Shanghai World EXPO (未来城市运行的实践 - 上海2010年世博会)	Prof. Cheng Dazhang Tongji University, Shanghai, China 程大章教授，上海同濟大學、 上海世博会事務協調局信息化部 副部長
15:35 – 15:50	<b>Refreshments</b>	
15:50 – 16:10	Advancement in Condition Monitoring and Its Management	Ir Dr. Peter Tse Building Services Operation and Maintenance Executives Society
16:10 – 16:30	Building Automation Engineering Education in Mainland China: College Education & Professional Training (楼宇自控教育在中国：大学的楼宇自控教育和业界的职业培训教育)	Prof. Ren Qinchang Xian University of Architectural Technology, Xian, China 任庆昌教授，西安建筑科技大学、 中国自动化学会陕西省分会副主任
16:30 – 16:50	Chiller Power Prediction Using Kalman Filter	Mr. Chang Un Weng 曾遠榮 Engineer, Institute for the Development and Quality, Macau
16:50 – 17:10	BMS Training for the Changing Environment in Hong Kong: Higher Diploma Perspective	Ir Brian O Deputy of Steering Committee - HKBCxC, Head, Dept of Engineering, IVE(TY)
17:10 – 17:25	<b>Panel Discussion &amp; Souvenirs Presentation</b>	Chair: <b>Ir Dr. Alex SK Chan</b> Hon. Advisor of HKBCxC, Member of HKCAAQV, Past President of HKIE
17:25 – 17:30	<b>Closing Remark</b>	<b>Ir Prof. WK Chow</b> Head, Department of BSE, Hong Kong Polytechnic University