

**AEEMM and SOEHK Joint Symposium 2011**  
營運工程師學會(香港分會)及澳門機電工程師學會  
2011 年度聯合研討會

**Road Transport Engineering:**  
*Engineering in High Speed Railway System*  
高速鐵路系統科技與工程

**Plant Engineering:**  
*Operations Effectiveness for Intelligent Plant Engineering*  
高效能操作智能設備工程

**Date: Saturday, 18 June 2011**  
**Time: 08:45 to 18:00**

**Venue: Theater N001, The Hong Kong Polytechnic University**

## **Introduction for Road Transport Engineering Session:**

What is the running speed in kilometer per hour to be defined as High Speed Railway (HSR) from mass transport system in comparison with the existing norm of rail speed in 2011?

The Study and Definition of Engineering in High Speed Railway System is for improvement on a sustainable engineering topic about the technological breakthrough from traditional diesel-electric to energy conversion technology on electric HSR which began in Japan since 1987, and became a rapidly growing development in Europe and Asia since last century. We, by now have learned that HSR is defined to be an average speed of 200 kilometer per hour or higher. Recently, PRC has already built the world's longest HSR network in service as of January 2011 including 120,000 km of conventional communicable rail lines with top speed of 380 kilometer per hour.

## **Introduction for Plant Engineering Session:**

The economic cycle including recession is unpredictable and undesirable to engineering management professionals especially to operations engineers, for it carries an extra burden for the planning and budgeting work. As a result greater pressure, which squeeze more value out of existing assets as well as tighter capital budgets, are typically demanded to them.

The objectives of the Symposium are to arouse engineering professionals' awareness of operations effectiveness through intelligent plant engineering design, installation, operation and maintenance for continuous improvement to contribute environmental protection and reduce green house gases emission.

## **Organizing Committee**

Hon Advisers: Ir Dr. the Hon Raymond C T HO; Ir Dr the Hon Samson W H TAM;  
Advisers: Ir Prof Edmund L Y CHUK; Ir Jeffrey K K YUNG; Ir S L LI  
Chairman: Ir Thomson CHEUNG  
Deputy Chairmen: Mr Raymond KUONG; Ir W K PAU; Ir K K TONG;  
Ir Dr Albert SO; Dr.Thomas CHEANG

Morning Session Chairman (Road Transport Engineering):	Ir K K TONG
Afternoon Session Chairman (Plant Engineering):	Dr John LEUNG
Honorary Secretary:	Mr C S HO
Honorary Treasurer:	Ms Doris L H CHEUNG
Honorary Design Director:	Ir K C LAU
Stage Manager:	Mr Ken LUK
AV Control Manager:	Mr M W LO; Mr Barry K F TSUI
Photographer:	Mr Allen POON; Mr H H YEUNG; Mr Jeffrey C H TONG
Administration Manager:	Ms Connie MUI

**OC Members:**

Ir M K FUNG

Ir Albert CHUN

Mr Ronald KWONG

Ir Simon HUNG

Mr John TSANG

Mr Billy CHU

Ir Simon S M KWOK

Mr Dennis WONG

Mr Calvin SIN

Mr Jan NG

Mr Simon LEE

Ir K C PANG

Mr P K CHAN

Mr Thomas LAU

Mr William LEUNG

Ir Kelvin TANG

**Organizers:**

The Macao Institution of Electrical and Mechanical Engineers (AEEMM)

The Society of Operations Engineers (Hong Kong Region)

**Supporting Organizations:**

Asian Institute of Built Environment (AIBE)

Asian Institute of Intelligent Buildings (AIIB)

Building Services Operation and Maintenance Executives Society (BSOMES)

Community &amp; Construction Professionals' Development Centre (CCPDC)

Chinese Mechanical Engineering Society (CMES)

Hong Kong Association of Energy Engineers (HKAAEE)

Integrated Graduate Development Scheme, The Hong Kong Polytechnic University (IGDS-PolyU)

Macao Properties and Facilities Management Association (MPFMA)

The Hong Kong College of Technology (HKCT)

The Hong Kong Institution of Engineers – Control, Automation and Instrumentation Division (HKIE – CA Div.)

**Venue:**

Theater N001, The Hong Kong Polytechnic University, Hung Hom, Kwoloon

**Program:**

08:45-09:00	<b>Registration - Engineering in High Speed Railway System</b>
09:00-09:05	<b>Opening Address for Morning Session</b> Ir Thomson CHEUNG Organizing Committee Chairman Society of Operations Engineers (Hong Kong Region)
09:05-09:25	<b>Welcome and Keynote Speech</b> Ir Dr. the Hon Raymond C T HO Member of the HKSAR Legislative Council (Engineering Functional Constituency)
09:25-9:30	<b>Presentation of Souvenir</b>
<b>Morning Session Chairman:</b>	Ir K K TONG
09:30-10:00	<b>E &amp; M Engineering in High Speed Railway System</b> Ir C L LEUNG Chief E & M Engineer Mass Transit Railway Corporation Ir Sha WONG Engineering Manager – Rolling Stock & Signalling Mass Transit Railway Corporation
10:00-10:30	<b>The Implementation of GSM-R Network in Guangshan High Speed Rail</b> Mr Bin YAN Deputy Chief Engineer China Railway Signal and Communication Corporation

Tel: 3188 0062

Fax: 3188 0177

Email: [members@soe.org.hk](mailto:members@soe.org.hk)

10:30-10:45	<b>Networking Coffee Break</b>
10:45-11:15	<b>The Signaling Systems for High Speed Trains: European, Japanese and Chinese Solutions</b> Ir Henry CHEUNG Orion Engineering Limited
11:15-11:45	<b>Energy Issues in Vertical Transportation Systems – A Review</b> Ir Dr. Albert SO Director of Asian Institute of Built Environment
11:45-12:20	<b>Discussion, Question and Answer</b>
12:20-13:45	<b>Lunch Break</b>
13:45 -14:00	<b>Registration - Operations Effectiveness for Intelligent Plant Engineering</b>
14:00-14:10	<b>Opening Address for Afternoon Session</b> Mr Raymond KUONG Council President The Macao Institution of Electrical and Mechanical Engineers
14:10-14:30	<b>Welcome and Keynote Speech</b> Ir Dr the Hon Samson W H TAM Member of the HKSAR Legislative Council (Information Technology)
14:30-14:40	<b>Presentation of Souvenir</b>
<b>Afternoon Session Chairman:</b>	Dr. John LEUNG
14:40-15:05	<b>Experience Sharing - Process to Identify Energy Saving Initiatives</b> Ir Alain TANG Property Director MGM Macau
15:05-15:30	<b>Intelligent Chiller Plant Controls</b> Mr Horace LEE Johnson Controls Asia
15:30-15:55	<b>Green Your Data Centers to Drive Efficiency and Save Costs</b> Ir Jeffrey K K YUNG President Society of Operations Engineers (Hong Kong Region)
15:55-16:15	<b>Networking Coffee Break</b>
16:15-16:40	<b>Low Carbon Building Operations</b> Ir Colin CHUNG Chairman Hong Kong Association of Energy Engineers
16:40-17:05	<b>Diagnosis and Optimal Control of Air-conditioning Systems for Enhanced Energy Efficiency</b> Dr. Yongjun SUN Building Automation and Energy Management Building Services Engineering Department The Hong Kong Polytechnic University, Hong Kong.
17:05-17:30	<b>The Way to be a Chartered Environmentalist</b> Ir Prof Edmund L Y CHUK Life Honorary President Society of Operations Engineers (Hong Kong Region)
17:30-17:50	<b>Discussion, Question and Answer</b>
17:50-18:00	<b>Closing Address</b> Ir S L LI Chairman Society of Operations Engineers (Hong Kong Region)

**Enrolment Form:**

I am a SOE / AEEMM / Supporting Organization / Members (membership No: \_\_\_\_\_) / Non-member  
 Title: Prof / Dr / Ir / Mr / Mrs / Ms / Miss / Others (Please specify) \_\_\_\_\_

Surname: \_\_\_\_\_ Given Name: \_\_\_\_\_

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

Organization: \_\_\_\_\_

Correspondence Address: \_\_\_\_\_

Tel (office): \_\_\_\_\_ Mobile: \_\_\_\_\_

Email: \_\_\_\_\_

**Registration Fee**

Admission Class	Session	Normal Charge (please tick to select)	Early Bird Registration (Before 31 May 11) (Please tick to select)
SOE/AEEMM Member	Morning Session	<input type="checkbox"/> HK\$450	<input type="checkbox"/> HK\$400
	Afternoon Session	<input type="checkbox"/> HK\$450	<input type="checkbox"/> HK\$400
	<b>Whole day</b>	<input type="checkbox"/> <b>HK\$800</b>	<input type="checkbox"/> <b>HK\$700</b>
Member of Supporting Organization	Morning Session	<input type="checkbox"/> HK\$500	<input type="checkbox"/> HK\$450
	Afternoon Session	<input type="checkbox"/> HK\$500	<input type="checkbox"/> HK\$450
	<b>Whole day</b>	<input type="checkbox"/> <b>HK\$900</b>	<input type="checkbox"/> <b>HK\$800</b>
Non-member	Morning Session	<input type="checkbox"/> HK\$550	<input type="checkbox"/> HK\$500
	Afternoon Session	<input type="checkbox"/> HK\$550	<input type="checkbox"/> HK\$500
	<b>Whole day</b>	<input type="checkbox"/> <b>HK\$1000</b>	<input type="checkbox"/> <b>HK\$900</b>
#Full Time Tertiary Student		Free of charge	Free of charge

Remarks: Lunch not included

Registration:

Simply complete the above form and fax to (852) 3188 0177 or email to [connie@soe.org.hk](mailto:connie@soe.org.hk). Please settle in full payment within 7 days from registration but not later than event day by mail to: The Society of Operations Engineers (Hong Kong Region), Unit 2, 3rd Floor, Winsum Industrial Building, 588-592 Castle Peak Road, Cheung Sha Wan, Kowloon, Hong Kong or The Macao Institution of Electrical and Mechanical Engineers, Av. Dr. Rodrigo Rodrigues, No.600e,e DF.First International C.Center-P15-05, Macau.

Payment Method:

The SOEHK will only accept cheque payment. Kindly make your cheque payable to "SOEHK". A confirmation notice will be sent to you upon receipt of your full payment.

Continuous Professional Development:

Attendance for the symposium will entitle to a total 6 CPD hours granted by AEEMM and SOEHK.

**# Copy of full time student card fax to (852) 3188 0177 or email to [connie@soe.org.hk](mailto:connie@soe.org.hk) for registration. first come first serve, limited seats available.**

Cancellation

Cancellation and full refund of the registration can be made on or before 10 June 2010. Kindly note that there will be no refund for cancellation after this date. However, should you be not able to attend, we welcome a representative to attend on your behalf.

Media: Cantonese, Mandarin and English

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