

HKFEMC Joint Professional BS Training Courses 2017

Lectures Details

Date	Lecture	lecturer
6 Apr 17 (Thu) (ACRA)	<p><u>The Keys to Perfect Hydronic Balancing and Control</u></p> <p>Significant energy savings can be achieved by implementing optimal hydronic balancing in chilled water system for new and existing buildings. Three conditions must together be met in order to make it happen: i) the design flow must be available at all terminals and this is where hydronic balancing comes into play with the benefits of preventing overflows and underflows; ii) the differential pressure across control valves should be kept to a minimum, and hydronic balancing is the only way to identify and resolve the real causes of operational problems in the plant; iii) flows must be compatible at system interfaces. With hydronic balancing, the installed power in the plant can be delivered. The balancing procedure allows you to localise and resolve any hydronic problems. During the training session, the theory and methodology of the hydronic balancing and control will be discussed in details with examples to illustrate the approaches and best practices.</p>	<p>Mr Tom PAK Head of Sales (China) (IMI Hydronics college associate)</p>
20 Apr 17 (Thu) (ACRA)	<p><u>Cooling tower: Principles, Operational Control and Plume Abatement</u></p> <p>As water-cooled air-conditioning systems are much more energy efficient than air-cooled air-conditioning systems, more and more new and existing buildings in Hong Kong are utilizing cooling towers for rejection of condenser heat from their chillers while providing air-conditioning in the building. For further energy reduction, wherever possible, the condenser water may be distributed to more cooling tower units than required and the running speed of the cooling tower fans may be reduced. Under cool outdoor conditions, however, cooling towers may emit white plumes. In the lecture, an introduction to the working principle of cooling towers will be given followed by discussions on the impact of varying the water and air flow rates on cooling tower performance. The cause of white plume emission will be explained and mitigation methods will be discussed.</p>	<p>Ir Prof Francis YIK (DEng, PhD, RPE, CEng, FCIBSE, MIMechE, MHKIE) Technical Director, ATAL Engineering Group</p>
27 Apr 17 (Thu) (ACRA)	<p><u>Energy Efficient Chiller Plant Control</u></p> <p>To achieve energy efficient chiller plant operation, other than selection of energy efficient equipment, optimized control of chiller plant operation also has noticeable impact. This constitute the followings :</p> <ul style="list-style-type: none"> • Maximize equipment operating efficiency by operating optimized quantity of equipment to achieve equipment operation at close vicinity of optimum operating condition • Control chiller plant delivery to no more than necessary for satisfying system unless for reason of energy efficiency improvement • Control chiller plant operation to maximum chiller plant overall energy efficiency instead of focusing on individual item of equipment or operating parameter 	<p>Ir Victor LEUNG (MHKIE, MCIBSE)</p>

HKFEMC Joint Professional BS Training Courses 2017

Lectures Details

Date	Lecture	lecturer
9 May 17 (Tue) (ECA)	<p><u>Renewable Energy (Wind, Solar and Hydro): Options, Environment and Installation</u></p> <p>Without the use of technical jargons, terminology and too much prerequisite specialized knowledge, the speaker would like to introduce audience on:</p> <ul style="list-style-type: none"> • What options of renewable energy generators commercially available in the market: wind, solar and hydro • Small scale renewable energy generators are available to a household and precautions to be taken in installation. • Environment Impacts of various options of renewable energy power generators: the good, the bad and the ugly. • Video and slide show for renewable energy generator installation 	<p>Mr Jimmy SHIH Director, The WHI Ltd.</p>
16 May 17 (Tue) (ECA)	<p><u>Change of the necessary documentation on the works in HV and LV equipment of 2015 edition COP Code 4</u></p> <ul style="list-style-type: none"> • Safety Precautions for Work on High Voltage Installation of COP 4H • Safety Precautions for Work on Low Voltage Installation of COP 4G 	<p>Mr SUEN Ming Lam Technical Director, GET Training Centre / Vice President of Vicwood Prosperity Technology Ltd.</p>
23 May 17 (Tue) (ECA)	<p><u>Technical Solutions for BEEO Implementation</u></p> <p>With the ongoing commitment of the Government to reduce the energy consumption and encourage the conservation of energy and improvement of energy efficiency, the Government has enacted the Buildings Energy Efficiency Ordinance (Cap. 610) (BEEO), which came into full operation on 21 September, 2012. The BEEO covers a wide variety of prescribed buildings.</p> <p>This course provides an introduction to energy efficiency technologies covering the technical issues and BEEO requirements in building services design, maintenance and upgrade. Practical cases will be used for elaboration.</p> <p>Course highlights :</p> <ol style="list-style-type: none"> 1. Introduction to Energy Conservation 2. The corresponding EAC requirements (with case studies) 3. The corresponding BEC requirements (with case studies) 4. Basic BEAM requirement in Energy Utilization. <p>This course is ideal for technical and management personnel involved in sustainability project planning, development, maintenance and energy management.</p>	<p>Ir Zacky WONG (BSc, MSc, MHKIE, PRE, REA) Technical Director, Wise Tech Consultants Co Ltd.</p>

HKFEMC Joint Professional BS Training Courses 2017

Lectures Details

Date	Lecture	lecturer
1 Jun 17 (Thu) (FSICA)	<p><u>Sprinkler System and Form 501 Submission Procedure</u></p> <p>This technical talk provides an introduction to sprinkler systems, major contents in design principles, the latest LPC rules and the operational aspects with other fire protection systems. You will develop:</p> <ul style="list-style-type: none"> • Understanding of the principles of system design, major components and the operation of sprinkler systems; • Knowledge of the local code / LPC rules and BS EN 12845 of sprinkler rules; • Understanding the operating linking to other active fire protection systems. 	<p>Mr Simon YAN Engineering Manager, InnoTec Engineering Ltd.</p>
6 Jun 17 (Tue) (FSICA)	<p><u>Design Considerations and Planning on Life Safety Systems for Special Building Premises</u></p> <p>To discuss the necessary considerations and concerns in planning for life safety systems in special types of building premises, such as industrial, infra-structural, mega-scale premises, super high-rise building, etc.</p>	<p>Mr Ben YUEN Technical Director, WSP Parsons Brinckerhoff</p>
15 Jun 17 (Thu) (PSWTA)	<p><u>Swimming Pool Filtration Control System</u></p>	<p>Mr Stephen WONG Technical Director, Super Water Technology Ltd.</p>
22 Jun 17 (Thu) (PSWTA)	<p><u>Good Design Practice for Plumbing and Drainage Installation</u></p>	<p>Ir Tommy LEUNG Technical Director, Building Mep, China Region of WSP Parsons Brinckerhoff</p>

HKFEMC Joint Professional BS Training Courses 2017

Lectures Details

Date	Lecture	lecturer
<p>27 Jun 17 (Tue)</p> <p>(LECA)</p>	<p><u>Use of Builders' Lift inside Lift Shaft for Transportation during Construction</u></p> <p>Passenger hoist driven by rack and pinion system and attached to the periphery of a building is commonly used for vertical transportation of workers during the construction period. In recent years, convertible builders' lift system (jump lift) is developed for installation inside lift shaft to "jump" discretely upwards as the building "grows up", providing lift service similar to that in a completed building for the construction workers. The jump lift will be converted to a permanent lift finally.</p> <p>With the benefits of stringent safety provisions, higher speed, smooth ride, automatic levelling, as well as all-weather operation, the jump lift provides construction workers with a safe and efficient means of vertical transportation.</p> <p>Applications & experiences would be shared in the Lecture.</p>	<p>Mr. Vincent YEUNG KONE Elevator (HK) Ltd.</p>
	<p><u>Lift Modernization and Successful Case</u></p> <p>Update of EMSD Lift Modernization Requirement such as UCMP, ACOP, Double Brake and sharing of Successful Case of Lift Modernization.</p>	<p>Mr. Jordan NIP (BEng, MBA, MIMechE, CEng, RLE, RLE) Senior Manager Mitsubishi Elevator Hong Kong Co. Ltd.</p>