



ASSOCIATION OF
CONSULTING ENGINEERS
SINGAPORE

ACES-Hioki Seminar on PdM and Energy Efficiency

Date: 28 April 2015 (Tuesday)

Duration: 9:00 a.m. to 12:30 p.m.

Venue: 18 Sin Ming Lane
#06-01 Midview City
Singapore 573960

CPD: 3 PDUs and M&E STUs to be confirmed

ACES Member:	S\$30/pax
Non-Member:	S\$70/pax

Seats are limited;
Registration is on a first
come first served basis

Course Synopsis

Productivity is the key to survival in today's globally competitive environment. Every company must embrace automation to gain more output from the same inputs – Labour, Time and Materials.

In the constant strive to improve productivity, companies have to ensure the reliability of their electrical systems and revenue generating equipment. Abnormal operating temperature, vibration and even ultrasound emission level are good indicators about equipment health and impending failures. Likewise power quality problems can cause processes and equipment to malfunction or shut down. The consequences can range from excessive energy costs to complete work stoppage. Since energy constitutes the largest costs in many industries and this cost continues to rise through the roof, its efficient use is a major concern.

The seminar will discuss the predictive approach to maintenance (PdM) and its benefits. Common PdM monitoring and measuring methods such as infrared thermography scanning, vibration analysis, ultrasonic testing, electrical measurement, power quality, insulation/ground resistance measurements will be addressed. Our speakers will share their personal experiences in the successful deployments of power quality and PdM test tools. The case studies include scanning electrical, mechanical and HVAC systems that revealed overloaded or imbalanced circuits, high resistance connections, overheating motors on HVAC equipment, malfunctioning steam traps and a host of conditions that might signal an inefficient use of energy. Other subjects include the cause and effect of poor power quality and the impacts they can have on equipment reliability.

The seminar will be packed with activities for maximum learning to take place. We look forward to your presence at the event.

The Speakers

Mr Eugene Wee – Assistant Application Manager Hioki Singapore

Eugene joined Hioki Singapore in June 2014 and was appointed Assistant Application Manager. Coming on board, he has wasted no time in familiarising with all the product types and has provided several product training to customers and distributors. Eugene has used most of the Hioki products (esp. PQAs and Power Meters) to suit his customers' application during site visits.

After graduating from Singapore Polytechnic, Eugene joined the Republic of Singapore Air Force (RSAF) as a Pilot / Weapon System Officer (Fighter). He had flown the prestigious F-16 Fighting Falcon Multirole Fighter Aircraft.

After completing his military contract in the RSAF, Eugene started his civilian career as an electrical contractor and has worked and completed two HDB Residential projects.

He had learnt a great deal through the challenges in those projects and his team succeeded in making sure all the electrical installations complied with the standards and regulations.

He has also worked as a senior engineer in a consulting firm. Under the guidance of a PE/LEW, he oversees the procedures of de-energisation / energisation of LV/HT systems of several industrial buildings.

To further upgrade on his knowledge, he has attended courses on Switchboard maintenance, Inspection and Testing, CP5 and also passed the test for High Voltage Operation for Engineers offered in Ngee Ann Polytechnic.

Mr. Joseph Ong, Senior Application Manager All Measure Technology (S) Pte Ltd

Joseph has a degree of Master in Information Technology from University of Newcastle, and a Level II Infrared Thermography certificate, Level I Vibration Analysis Certificate and Ultrasound Inspection Certificate.

He has more than 21 years of experience in pre-sales and post-sales application supports on electrical and electronic testing instruments. He is very experienced trainer in power quality and PdM test tools, and has been conducting regular product training and seminar both in Singapore and the regional countries.

Programme

Time	Topic	Speaker
9:00 am to 10:20 am	Leveraging condition monitoring technology (thermography, vibration analysis, ultrasound scanning and electrical measurements) to detect impending faults in electrical / electromechanical equipment	Joseph Ong
10:20 am to 10:40 am	Tea break	
10:40 am to 12:30 pm	Causes of Power Quality Phenomenon and their effects on equipment Q & A	Eugene Wee
12:30 pm	End of Seminar	

REGISTRATION FORM

For enquiry, please call Lilian Lean / Jennifer Quek at Tel: 6324 2682

Kindly sign and submit your completed registration form to registration@aces.org.sg

Title	Fee per pax	Schedule
ACES-Hioki Seminar on PdM and Energy Efficiency	Member: \$30 Non-member: \$70	28 Apr 2015 (Tue) 9:00 a.m. to 12.30 p.m.

S/N	*Name	Designation	ACES M'ship No.	Non-member
1.				
2.				
3.				

Company:		
*Address:		
*Postal code:		
*Contact Person:	*Mobile No.:	*Email:

PAYMENT

Enclosed is a Cheque No: _____ (Cheque should be crossed and made payable to "Association of Consulting Engineers Singapore" and mailed to "Thomson Road Post Office, PO Box 34, Singapore 915702, Attention: ACES Secretariat".

Terms and Conditions

By submitting and signing this application form, the company and individual applicant agree to the following:

- a) The company and individual applicant has read and understood the terms of the flyer (if available) and the application form.
- b) Payment for the course must be made before the course commencement date.
- c) ACES reserves the right to amend any details relating to the course, revise the course fees without prior notice, cancel or postponed the course.
- d) Request for withdrawal or replacement must be made in writing. Requests are subject to approval by ACES.
 - Written request for replacement must reach ACES before the course commencement date. There will be no additional charges for suitable replacement.
 - Written request for withdrawal that reaches ACES
 - ◆ **At least At least 7 working days before course commencement: Full Refund**
 - ◆ **4 to 6 working days before course commencement: 50% of the course fee Refund**
 - ◆ **3 working days before and upon course commencement: No Refund**

To be completed by Company and Individual Applicant

COMPANY APPLICANT

Name: _____

Signature: _____

Date: _____

Company stamp (for company application)

INDIVIDUAL APPLICANT

Name: _____

Signature: _____

Date: _____