

CIWEM HK Conference 2012

EFFICIENT ENERGY MANAGEMENT IN THE WATER AND WASTE INDUSTRY



Final Announcement

Date: 10 May 2012

Venue: Regal Kowloon Hotel

As the society becomes more adapted to a modern life style, there is an increasing dependency on resources to sustain this contemporary standard of living. Efficient energy management is one of the latest trends to optimize the scarce resources available, and this influential concept is well accepted within the water and wastewater industry. In addition to the optimization of energy usage, alternative methods of producing power are constantly sought to supplement conventional energy supply. This conference aims to provide a platform for professionals in the water and wastewater industry to gain further insights on the latest development in energy management that are stemmed from different practices, and to share experiences and stimulate initiatives that can alleviate the ever-growing demand of energy.

Subject Area

- Energy Optimization
- Waste to Energy

Keynote Speakers

Ir CHAU Chi Wai, David, JP
Assistant Director of Water Suppliers Department

Ir SHE Siu Kuen, Kenneth
Assistant Director of Drainage Services Department

Ir AU Wai Kwong, Elvis, JP
Assistant Director of Environmental Protection Department

Prof. Gordon McKAY
Head of the Department of Chemical and Biomolecular Engineering, HKUST

Organizer : The Chartered Institution of Water and Environmental Management Hong Kong

Webpage : <http://www.ciwem.org/knowledge-networks/branches/hong-kong.aspx>

Email: ciwemhk@hongkong.com Facebook : Friends of CIWEM HK

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Date : 10 May 2012
Time : 8:30 am to 5:00 pm
Venue : Versailles Ballroom, 3/F, Regal Kowloon Hotel, 71 Mody Road, Tsimshatsui, Hong Kong
Language : English
Target : Scientists, Engineers, Researchers, Environmentalists, Consultants, Contractors, Students, etc.
Speakers : Renowned experts and specialists in the industry from local and overseas
Certificate : CPD certificate will be provided at the end of the conference.

Organizing Committee

Ir Norman CHENG, Immediate Past Chairman, CIWEM HK
Mr Paper LAM, Junior Vice Chairman, CIWEM HK
Ir Clement LI, Hon. Treasurer, CIWEM HK
Ir CF LEUNG, Committee Member, CIWEM HK
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Enquiry

Ms Carmen YEUNG

Conference Secretariat

Tel.: 9124 0920 Email: secretary.ciwem@gmail.com

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Efficient Energy Management in the Water and Waste Industry

Programme

Welcoming Address by Mr. David Wilkes, President of CIWEM, UK

MORNING SESSION: EFFICIENT ENERGY MANAGEMENT IN TREATMENT FACILITIES

KEYNOTE PRESENTATIONS

- ◆ **Energy Management in Water Supplies Department** by Mr. CHAU Chi Wai, David, JP, Assistant Director of Water Supplies Department, HKSAR
- ◆ **Energy Management and Recovery in Wastewater Treatment** by Mr. SHE Siu Kuen, Kenneth, Assistant Director of Drainage Services Department, HKSAR

PRESENTATIONS:

- ◆ **Waste Water Treatment Plants: Produce More, Consume Less Toward Energy Self-sufficiency** by Mr. Jean-Francois BERNARD, Veolia Water Asia Pacific
- ◆ **Optimization of Life Cycle Cost for Energy Saving in Sewage Pumping Facilities from Asset Management Perspective** by Mr. Gary CHU, Drainage Services Department, HKSAR
- ◆ **Optimization of Municipal Water and Wastewater Treatment Assets** by Mr. David PINDER, Atkins Ltd.
- ◆ **Real-Time Optimal Pump Scheduling and Control using Genetic Algorithm and Artificial Neural Network** by Mr. Charles LAW, Water Supplies Department, HKSAR
- ◆ **Optimize Energy and Cost Potential of Biological Treatment Up To 21% - a Holistic Solution Case Study** by Mr. Ken WONG, Endress + Hauser (HK) Ltd.
- ◆ **Optimization of Sludge Treatment Processes for Energy Saving in Shatin Sewage Treatment Works** by Mr. Max CK CHIANG, Drainage Services Department, HKSAR
- ◆ **Road Towards Net Zero Impact: Swire Beverages Energy Strategy** by Mr. Samuel KWONG, Swire Pacific Ltd.

LUNCH

AFTERNOON SESSION: WASTE TO ENERGY

KEYNOTE PRESENTATIONS

- ◆ **The Development of Waste to Energy Facilities in Hong Kong** by Mr. AU Wai Kwong, Elvis, JP, Assistant Director of Environmental Protection Department, HKSAR
- ◆ **Energy and Products from Wastes** by Prof. Gordon MCKAY, Head of the Department of Chemical and Biomolecular Engineering, HKUST

PRESENTATIONS:

- ◆ **Convert Waste to Energy Using Bacteria: New Advances in an Old Technology** by Prof. ZHANG Tong, Civil Engineering Department, The University of Hong Kong
- ◆ **Powering Society with Waste** by Prof. Patrick LEE, School of Energy and Environment, City University of Hong Kong
- ◆ **Sludge Treatment Plant at Tsang Tsui, Tuen Mun** by Mr. Leslie SWANN, Jacobs China Ltd. / VW-VES (HK) Ltd. / Ove Arup & Partners Hong Kong Ltd. / Leighton Contractors (Asia) Ltd.
- ◆ **Utilisation of Biogas at Shatin Sewage Treatment Works** by Mr. FUNG Wing Cheong, Drainage Services Department, HKSAR
- ◆ **NENT Landfill – Natural Gas from Hong Kong's Waste** by Mr. Chris MAN, The Hong Kong and China Gas Ltd. / Environmental Protection Department, HKSAR / SITA Waste Services Ltd.

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Sponsors and Supporting Organizations

Gold Sponsors



Supporting Organizations



Registration Fees

Registration Category	Early Bird (on or before 20 April 2012)	Standard / On-site (after 20 April 2012)
Member of CIWEM	HK\$1,000	HK\$ 1,200
Graduate Member of CIWEM	HK\$500	HK\$ 700
Student Member of CIWEM	Free	Free
Non-member	HK\$1,200	HK\$ 1,500

Note:

Registration fees include conference, conference materials, lunch (except for Student Members of CIWEM) and tea breaks.

CIWEM's International Partner Organizations (IPO) may each nominate one participant who will be entitled to one free seat of the full conference

Please complete the registration form and return it to Conference Secretariat (Ms Carmen YEUNG) by email to secretary.ciwem@gmail.com. **To enjoy the early bird rate, registration and payment MUST be received on or before 20 April 2012.**

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Biography of Keynote Speakers



Mr. CHAU Chi Wai, David, JP
Assistant Director (Mechanical & Electrical) of Water Supplies Department, HKSAR

Mr. CHAU graduated from the University of Hong Kong in 1975 with BSc(Eng) degree in Civil Engineering. Received training from the then Public Works Department as a Civil Engineering Graduate from 1976 to 1979. Joined the Water Supplies Department as an Assistant Engineer in 1979 and in the same year became a Chartered Civil Engineer.

From 1979 onwards, engaged in the planning, design, construction, operation and maintenance of waterworks before becoming in charge of the Customer Services function in 2002. From 2004 to now, in charge of the Mechanical and Electrical function for the department.



Mr. SHE Siu Kuen, Kenneth
Assistant Director (HKSARG) of Drainage Services Department, HKSAR

Mr. SHE is an electrical engineer by profession. After graduation from the Hong Kong Polytechnic in 1976, he worked in the Hong Kong Electric Co. for two years, and then continued his engineering career in the Electrical & Mechanical Services Department. He participated in the planning, design, construction, operation and maintenance of the electrical and mechanical systems of government installations. In 2011, he was transferred to the Drainage Services Department and took up the post of Assistant Director of Drainage Services, overseeing all electrical and mechanical aspects of wastewater and stormwater drainage services, covering capital works for new infrastructure, improvement works to existing assets, operation and maintenance of existing systems and facilities.



Mr. AU Wai Kwong, Elvis, JP
Assistant Director of Environmental Protection Department, HKSAR

Mr. AU is currently the Assistant Director of the Environmental Protection Department of Hong Kong SAR Government responsible for infrastructure planning and nature conservation programmes. Among others, he is now in charge of the Integrated Waste Management Facilities and Organic Waste Treatment Facilities for Hong Kong. Mr Au has BSc(Eng), MSc(Urban Planning) and MSc (Financial Management). Mr Au is a qualified engineer and a qualified urban planner, and has over 28 years of experience in environmental and energy fields. He was previously the head of Environmental Assessment Division in charge of environmental assessment, planning and noise; the Principal Assistant Secretary of the Energy Division of the Environment Bureau in charge of building energy and oil/gas policies; and the head of Water Policy Division of EPD. He was previously elected to serve as the President of the International Association for Impact Assessment which is an international professional organization with members from over 110 countries. He is also a Fellow of Hong Kong Institution of Engineers, a Fellow of Hong Kong Institute of Planners, a Fellow of Hong Kong Institute of EIA and a Corporate Member of the Chartered Institution of Water and Environmental Management. He has published a number of articles and chapters in professional journals and professional books.



Professor Gordon MCKAY, PhD, DSc
Acting Head of Department of Chemical and Biomolecular Engineering,
Hong Kong University of Science and Technology

Professor MCKAY obtained his BTech, PhD and DSc from Bradford University. He is CEng, CEnv, CChem, FICHEM, FIE, FHKIE, FRSC, Flnst Petrol and FIQA. Prof. McKay has over 40 years experience in university and industry.

He was at the Department of Chemical Engineering, the Queen's University of Belfast from 1970 to 1983, then he was an EC Project Manager to establish the Faculty of Engineering from 1993 to 1995, at the University of Jordan.

Prior to joining HKUST in 1995 he spent 10 years in industry. He established his own company, Consultancy Process Engineering and Management Systems, in 1987. In 1991 this company was subcontracted to Project Management (PM) Ltd (Foster Wheeler Ireland) who employ over 600 staff and is Ireland's largest process engineering design company. Prof. Gordon McKay was appointed as their Senior Process Specialist to head up their Process Safety and Environmental Management teams and also act as Project Manager on certain key projects.

For professional Service he has held a number of positions: - FICHEM, UK, Irish Branch Chairman; HK Liaison Officer; FHKIE, Chemical Discipline Chairman (1998-2001); Chemical Discipline Vice Chairman (1996-1997, 2002-2003); HKQAA, Governing Council Member.

His publications: include 8 books, 300 refereed research papers, 30 papers on chemical engineering and energy related education papers, presentations at 100 international conferences and 10 patents. Supervised 33 PhD and 40 research MPhil/MSc theses - awarded the DSc for research in Environmental Pollution Treatment in 1992.

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Payment Method

Payment of registration fees must be made in Hong Kong Dollars by the following methods:

-Bank transfer to HSBC a/c no. 111-412-367-001 and send the receipt to Conference Secretariat (Ms. Carmen YEUNG) by email to secretary.ciwem@gmail.com.

-Cheque payable to "CIWEM HK" and send together with the completed Registration Form to Conference Secretariat (Ms. Carmen YEUNG), c/o Veolia Water South China Ltd., Unit 2402, 24th Floor, DCH Commercial Center, 25 Westlands Road, Quarry Bay, HK. (Please mark "CIWEM HK Conference 2012 – Name of registrant" at the back of the cheque.)

Cancellation Policy

Please note that registration cannot be cancelled, however, substitution is permitted on the basis that written notice is received before 01 May 2012.

Notes:

1. Registrations are subject to acceptance on a "first-come-first-served" basis.
2. Registration forms received without payment will not be processed. Please do not send cash.
3. Each registrant should complete a separate registration form. A photocopy of the registration form is acceptable.
4. Written confirmation will be sent upon receipt of your registration form and full payment. If this confirmation has not been received within one week, please contact Ms. Carmen YEUNG by Tel.: 9124 0920 or email: secretary.ciwem@gmail.com.
5. The Conference Programme is subjected to change without prior notice.
6. A replacement or transfer is allowed but the replacement must be from the same organization and upon receipt of a written request from the person to be placed.
7. On-site registration is not encouraged. Conference materials may not be provided to on-site registrants if the conference is over-subscribed.
8. The Conference will be cancelled or postponed if a typhoon signal no. 8 or above, or a black rainstorm warning, is still hoisted after 6:00 am. In case the Conference is cancelled in such situation, the registration fees will be returned to the registrants accordingly.

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REGISTRATION FORM

Personal Particulars

(Please type or print in block letters and ✓ where appropriate.)

Title: Prof Dr Mr Ms Others, please specify: _____

Last Name: _____

First Name: _____ Position: _____

Organization: _____

Address: _____

Tel.: _____ Fax: _____

Email: _____ CIWEM Membership No.: _____

Cheque No.: _____ (Bank: _____)

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