Invitation to the IAS Symposium on Activated Sludge – Past and Next 100 Years
26-28 August 2014
Jockey Club Institute for Advanced Study (IAS), HKUST, Hong Kong

As one of the four global celebration events for the birth of activated sludge in 1914, The Hong Kong University of Science and Technology (HKUST) is honored to host this prestigious symposium on "Activated Sludge – Past and Next 100 Years" in collaboration with The International Water Association (IWA), Drainage Services Department of the HKSAR Government, Sun Yat-sen University and with many other supporting bodies in Hong Kong and the region, for example, China Urban Water Association (CUWA), Hong Kong Branch of the Chartered Institution of Water and Environmental Management (CIWEM HK), Environmental Protection Department of the HKSAR Government, Water Supplies Department of the HKSAR Government, Environmental Division of the Hong Kong Institution of Engineers (HKIE), Singapore's Public Utilities Board (PUB), Japan Sewage Works Agency (JSWA) and the University of Hong Kong.

On behalf of the Organizing Committee, I would like to invite you and your colleagues to join this exciting event on 26-28 August 2014. Attached please find the rundown of the programme for your information. For registration, **please complete the attached registration form with your credit card information and email it back to the event secretariat at iasas100y@ust.hk, or mail it back with a cheque to Miss Chan Ka Chi at Rm 3575, Department of Civil and Environmental Engineering, The Hong Kong University of Science and Technology, Clear Water Bay, Kowloon, Hong Kong, on or before 31 July 2014.** For participants need to apply for Hong Kong entry visa, please kindly register before 30 June 2014 so that we can issue you an invitation letter for your visa application earlier.

Since our online registration is yet to ready, please register with us by using the attached registration form. We anticipate it will be ready in 2 weeks. We apologize for any inconvenience caused.

We are confident the symposium will provide an excellent opportunity for water professionals, academics, regulators and policy makers to learn from the past and think about the future through stimulating presentations of 17 world's leading experts and other participants.

Should you need detailed information about this event, please visit http://iasprogram.ust.hk/201408/iasiwa or call our Mr Y. W. Ha at +852 23588743 or myself at +852 23588752. Your strong support is highly appreciated.

I look forward to welcoming each of you at this exciting conference on August 26-28.

Yours sincerely,

G. H. Chen, Ph.D., FIWA
Chairman of the Organizing Committee

HKUST Jockey Club **Institute for Advanced Study**

IAS Symposium on Activated Sludge: Past and Next 100 Years

26 – 28 August 2014

Registration Invitation

IAS SYMPOSIUM ON ACTIVATED SLUDGE-PAST AND NEXT 100 YEARS

26 – 28 August 2014

HKUST Jockey Club Institute for Advanced Study

Organized by:

香港科技大學 THE HONG KONG UNIVERSITY OF SCIENCE AND TECHNOLOGY

HKUST JOCKEY CLUB Institute for Advanced Study IAS

Mainly Supported by:

IWA the international water association

渠務署 Drainage Services Department

中山大學 SUN YAT-SEN UNIVERSITY

Supported by:

環境保護署 Environmental Protection Department

水務署 Water Supplies Department

PUB Water for All: Conserve, Value, Enjoy

CUWA

HKIE THE HONG KONG INSTITUTION OF ENGINEERS 香港工程師學會 Environmental Division 環境分部

CIWEM

香港大學 THE UNIVERSITY OF HONG KONG

Sponsored by:

王寶瑛教育基金會 K. C. WONG EDUCATION FOUNDATION (Conference Sponsor)

AECOM (Gold Sponsor)

伟明集团 WEIMING GROUP (Gold Sponsor)

Biwater (Pearl Sponsor)

Invitation to the IAS Symposium on Activated Sludge – Past and Next 100 Years
26-28 August 2014
Jockey Club Institute for Advanced Study (IAS), HKUST, Hong Kong

As one of the four global celebration events for the birth of activated sludge in 1914, The Hong Kong University of Science and Technology (HKUST) is honored to host this prestigious symposium on "Activated Sludge – Past and Next 100 Years" in collaboration with The International Water Association (IWA), Drainage Services Department of the HKSAR Government, Sun Yat-sen University and with many other supporting bodies in Hong Kong and the region, for example, China Urban Water Association (CUWA), Hong Kong Branch of the Chartered Institution of Water and Environmental Management (CIWEM HK), Environmental Protection Department of the HKSAR Government, Water Supplies Department of the HKSAR Government, Environmental Division of the Hong Kong Institution of Engineers (HKIE), Singapore's Public Utilities Board (PUB), Japan Sewage Works Agency (JSWA) and the University of Hong Kong.

On behalf of the Organizing Committee, I look forward to welcoming all of you at this event in 26-28 August 2014. I am confident the symposium will provide an excellent opportunity for water professionals, academics, regulators and policy makers to learn from the past and think about the future by giving them a platform, which is intended to stimulating exchange and discussion followed by presentations from 17 leading experts and other participants.

For registration and fees, please refer to the registration method described in following pages and send the completed registration form to our secretariat by email at iasas100y@ust.hk on or before 31 July 2014. For participants need Hong Kong entry visa application, please kindly register before 30 June 2014 for us to prepare invitation letter for you.

Currently, please use the attached registration form. You can also download it from the conference website on or after 30 May for your convenience.

Please visit the symposium webpage at http://iasprogram.ust.hk/201408/iasiwa for more detail information. Thank you very much for your strong support!

Yours sincerely,

G. H. Chen, Ph.D., FIWA
Chairman of the Organizing Committee

Organizing Committee

Professor Guang-Hao Chen (Chair)	Professor Department of Civil and Environmental Engineering Associate Director of the Institute for the Environment The Hong Kong University of Science and Technology
Ir Dr Ho-Kwong Chui, Samuel	Principal Environmental Protection Officer (Community Relations) Environmental Protection Department The Government of the Hong Kong Special Administrative Region
Ir Norman Cheng	Immediate Past Chairman The Chartered Institution of Water and Environmental Management Hong Kong Branch (CIWEM HK)
Ir Wing-Cheong Fung	Senior Electrical & Mechanical Engineer Drainage Services Department The Government of the Hong Kong Special Administrative Region
Ms Christina Ko Hartinger	Director of Projects Black & Veatch Hong Kong Limited
Ir Chi-Man Lam	Senior Engineer / Headquarters Water Supplies Department The Government of the Hong Kong Special Administrative Region Representative International Water Association (IWA) Regional Committee of Hong Kong, China (IWAHK)
Ir Professor Irene Man-Chi Lo	Chairperson The Hong Kong Institution of Engineers (HKIE) Environmental Division Professor Department of Civil and Environmental Engineering The Hong Kong University of Science and Technology
Professor Xiao-Yan Li	Professor Department of Civil Engineering The University of Hong Kong
Dr Tao Li	Director China Regional Office International Water Association (IWA)
Ir I-Man Leong, Echo	Technical Director Water & Urban Development, Hong Kong AECOM
Professor Fan-Gang Meng	Associate Professor School of Environmental Science and Engineering Sun Yat-sen University
Ir Yiu-Wing Ha	Works Manager Department of Civil and Environmental Engineering The Hong Kong University of Science and Technology
Dr Ji Dai	Post-doctoral Fellow Department of Civil and Environmental Engineering The Hong Kong University of Science and Technology
Mr Bo Wang	Research Assistant Department of Civil and Environmental Engineering The Hong Kong University of Science and Technology

PRELIMINARY PROGRAM SCHEDULE

26 August 2014, Tuesday	
Time	**Program**
08:30-09:20	**Registration & Reception**
09:20-09:50	**Welcoming and Opening Session (Chair: Professor Guang-Hao Chen, HKUST)**
09:20-09:30	Welcoming Remarks by Professor Joseph H W Lee, Vice-President of the Hong Kong University of Science and Technology for Research and Post-graduate Studies, HKSAR, China
09:30-09:40	Opening Remarks by Dr Glen T. Daigger, IWA President, Senior Vice President and Chief Water Technology Officer of CH2M HILL, USA
09:40-09:50	Opening Remarks by Ir Kum-Wah Chung, Daniel, JP, Director of Drainage Services Department, HKSAR, China
09:50-10:20	Coffee Break
10:20-12:20	***Global Experience-I*** (Chair: Ir Dr Ricky Li Chung Leung, DSD)
10:20-11:00	"From Ardern and Lockett to today and beyond", Dr Glen T. Daigger, IWA President, Senior Vice President and Chief Water Technology Officer of CH2M HILL, USA
11:00-11:40	"Biological nutrient removal: past, present and future", Dr James L. Barnard, Global Practice and Technology Leader of Black & Veatch, USA
11:40-12:20	"A century of activated sludge - advances in modelling", Professor George A. Ekama, University of Cape Town, South Africa
12:20-14:00	Lunch Time
14:00-15:20	***Global Experience-II*** (Chair: Ir Norman Cheng, CIWEM HK)
14:00-14:40	"Strategies for further development of MBR technology", Professor Yoshimasa Watanabe, Chuo University, Japan
14:40-15:20	"Integrated fixed-film activated sludge system (IFAS)", Professor Hallvard Ødegaard, Norwegian University of Science and Technology, Norway
15:20-15:40	Coffee Break

15:40-17:40	***Regional Experience-I*** (Chair: Ir Professor Irene Man-Chi Lo, HKIE Environmental Division)
15:40-16:20	"New challenges in recovery of resource and energy from sewage", Professor Qian Yi, Tsinghua University, China
16:20-17:00	"Activated sludge process in Japan - the past and the future", Dr Takao Murakami, Nissuicon, Japan
17:00-17:40	"Perspectives of wastewater treatment processes in Korea", Professor Shin Hang-Sik, Korea Advanced Institute of Science and Technology, Korea
18:30-20:30	Welcoming Dinner, Chinese Restaurant, G/F, HKUST
	27 August 2014, Wednesday
08:30-10:30	***Regional Experience-II*** (Chair: Ir I-Man Leong, Echo, AECOM)
08:30-09:10	"Acidogenic technology and application for hard-degradable organic industrial wastewater", Professor Ren Nanqi, Harbin Institute of Technology, China
09:10-09:50	"Overview of wastewater treatment-energy-greenhouse gas nexus: challenges and solutions forward", Professor Wun Jern Ng and Professor Liu Yu, Nangyang Technological University, Singapore
09:50-10:30	"Sea-water flushing and wastewater treatment in Hong Kong", Ir Dr Ricky Li Chung-Leung, Drainage Services Department, HKSAR, China
10:30-10:50	Coffee Break
10:50-12:50	***Global Future Development*** (Chair: Ir Dr Samuel Ho-Kwong Chui, EPD)
10:50-11:30	"Granular sludge - the next stage in wastewater treatment", Professor Mark C. M. van Loosdrecht, Delft University of Technology, The Netherlands
11:30-12:10	"Moving from treatment to resource", Professor Bruce E. Rittmann, Arizona State University, USA
12:10-12:50	"New challenges, new answers - a system approach", Professor Peter Cornel, Technische Universität Darmstadt, Germany
13:00-14:30	Lunch Time
14:30-17:30	***Regional Future Development*** (Chair: Professor Xiao-Yan Li, HKU)
14:30-15:10	"Maximizing the benefits of water reclamation", Professor Qu Jiuhui, Research Center for Eco-Environmental Sciences, the Chinese Academy of Sciences, China
15:10-15:50	"Towards energy efficient water reclamation process", Mr Wah Yuen Long & Dr Winson Lay Chee Loong, PUB, Singapore's National Water Agency, Singapore
15:50-16:20	Coffee Break & Photo-taking
16:20-17:00	"Future technologies for sewage management in coastal areas", Professor Guang-Hao Chen, the Hong Kong University of Science and Technology, HKSAR, China
17:00-17:30	**Concluding Session** (Chair: Professor Guang-Hao Chen or special guest)
19:00-21:30	Gala Dinner

28 August 2014, Thursday	
08:30-12:20	***IAS Workshop: Future of Wastewater Treatment in China***
08:30-08:35	Welcoming Remarks by Professor Lionel M. Ni, Special Assistant to the President, Dean of Fok Ying Tung Graduate School, the Hong Kong University of Science and Technology, HKSAR, China
08:35-08:55	Opening Remarks by Mr Liu Zhiquan, Deputy Director-General of Department of Science, Technology and Standards, Ministry of Environmental Protection of the People's Republic of China (TBC)
08:55-09:55	***Keynote Speeches***
08:55-09:15	Professor Qian Yi, Tsinghua University, China
09:15-09:35	Professor Qu Jiuhui, Research Center for Eco-Environmental Sciences, the Chinese Academy of Sciences, China
09:35-09:55	Professor Ren Nanqi, Harbin Institute of Technology, China
09:55-10:10	Coffee Break
10:10-12:20	***Presentations by invited Mainland Guests (10 min each)***
	13-15 leading experts in Mainland will present their views
12:30-14:30	Lunch Time
14:30-17:30	***Technical visit to Sha Tin Sewage Treatment Works including visit to the first SANI full-scale demo plant***

HKUST Jockey Club Institute for Advanced Study

IAS Symposium on Activated Sludge: Past and Next 100 Years

LOCATION MAP

THE HONG KONG UNIVERSITY OF SCIENCE AND TECHNOLOGY

MTR Stations with bus or green minibus service to HKUST 提供往科大巴士或綠色專線小巴服務的港鐵車站		
Diamond Hill 鑽石山：	91, 91M	
Choi Hung 彩虹：	91, 91M	11, 11S
Ngau Tau Kok 牛頭角：		104
Tiu Keng Leng 調景嶺：	792M	
Hang Hau 坑口：		11, 11M, 11S
Po Lam 寶琳：	91M	11S, 12

Transportation from airport to HKUST:
For passengers with bulky luggage, taking a taxi to HKUST direct is recommended.
Those with simple luggage may take Airport Bus A22 to Lam Tin, and change for taxi to HKUST.

Bus Routes 巴士路線

Green Minibus Routes 綠色專線小巴路線

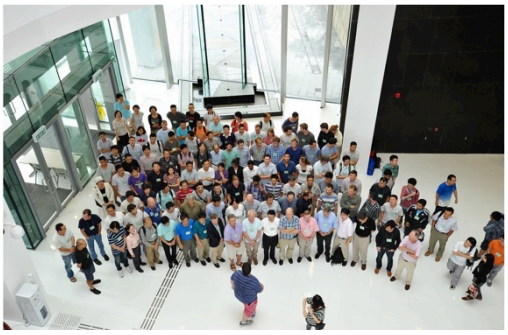
Venue Location

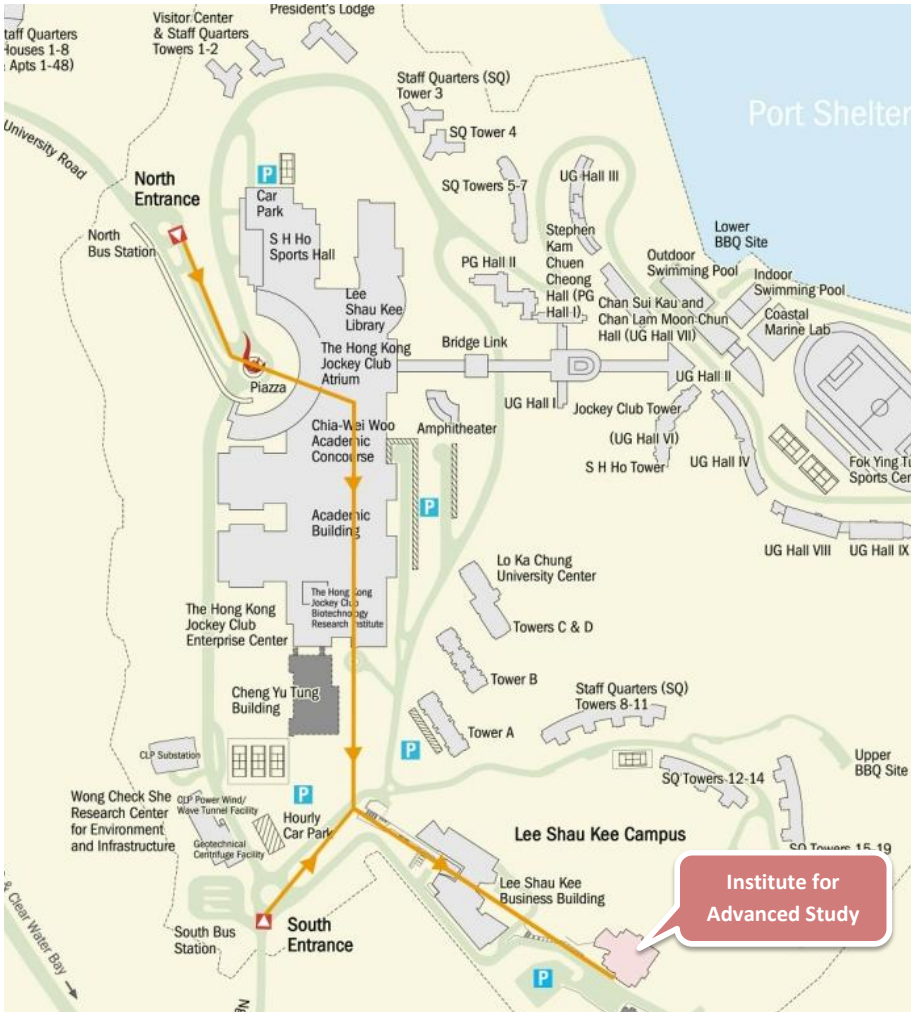
Jockey Club Institute for Advanced Study (IAS) Lecture Theatre,

The Hong Kong University of Science and Technology,

Clear Water Bay, Kowloon, Hong Kong

香港科技大學
THE HONG KONG UNIVERSITY OF SCIENCE AND TECHNOLOGY





Registration and Fees

Registration method

1. Send the completed registration form by email to the Symposium Secretariat at iasas100y@ust.hk
2. Your registration will be confirmed by email after your payment is received.

Registration condition

- Applications for registration must be via the above means. Telephone registration will not be accepted.
- Registration cannot be confirmed until payment has been received.
- There is no refund for non-attendance except as outlined in the cancellation policy.

Cancellation policy

Cancellations must be notified in writing to Symposium Secretariat. Telephone cancellations will not be accepted. Cancellations received prior to 15 July 2014 will receive a full refund less a HKD 300 administration charge. Refunds will not be issued for cancellations received after 15 July 2014.

Fees

- Please submit the registration form on or before 31 July 2014
- For participants need Hong Kong entry visa application, please kindly register before 30 June 2014 for us to prepare invitation letter for you.
- Standard registration fee: HKD 3,000
- The registration fee includes whole programe participation, all coffee breaks, conference proceedings and two banquet tickets (for 26, 27 Aug 2014).

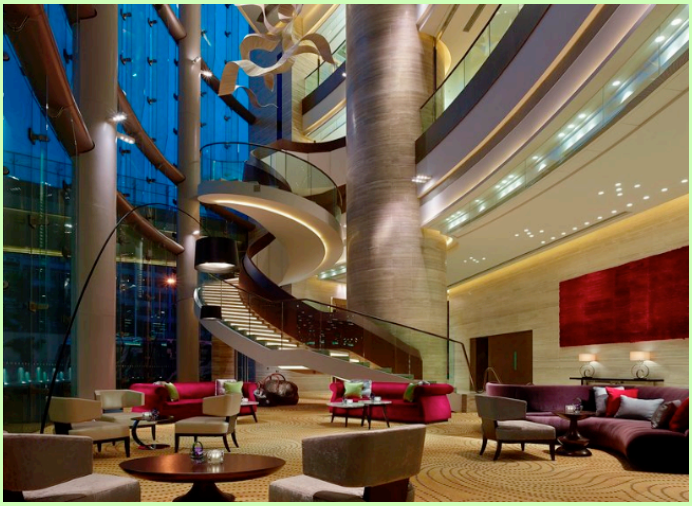
Lodging

Off-campus Hotels

Many of our guests would choose to stay in the following two hotels near the HKUST campus (about 20 minutes by bus), please visit respective website below for detailed information. Please make room reservation with the hotel directly. For our invited guests we will help book room and settle payment for the symposium period.

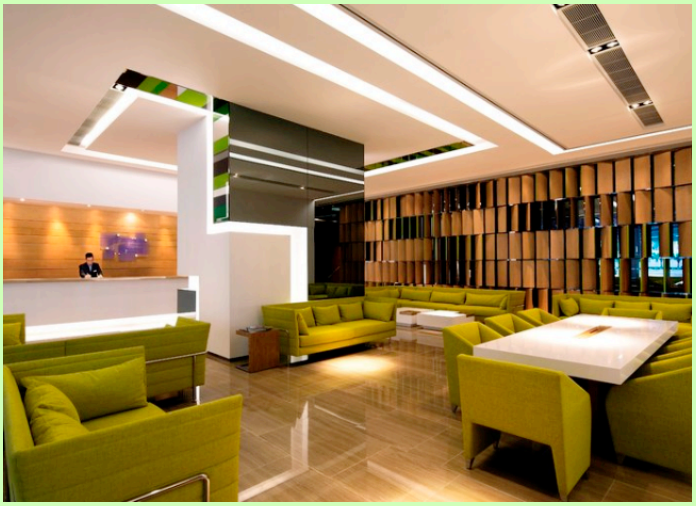
1. Crowne Plaza Hong Kong Kowloon East, located in Tseung Kwan O, Kowloon

http://www.ihg.com/crowneplaza/hotels/gb/en/hong-kong/hkgtk/hoteldetail



2. Holiday Inn Express Hong Kong Kowloon East, located in Tseung Kwan O, Kowloon

http://www.hiexpress.com/hotels/us/en/hong-kong/hkgke/hoteldetail



Travel Tips

Currency

The official currency in Hong Kong is Hong Kong dollar (HKD) which is pegged to US dollar (USD) at a fixed rate of USD 1 to approximately HKD 7.8.
Foreign currencies can be exchanged to Hong Kong dollars at the Hong Kong International Airport at a relatively higher exchange rate. You are advised to bring sufficient cash in HKD before departing from your home country or make exchange at our campus banks.

Electronic Devices

The standard electrical voltage in Hong Kong is 220 volts AC, 50Hz. The majority of electrical outlets in Hong Kong take a three-pronged UK-style plug. You can buy an inexpensive adaptor for your electrical equipment if needed.

Weather in August

Summer weather is hot, humid and unstable. Thunderstorms and brief showers are common, as well as sunny conditions. The average temperature in daytime is about 28 °C to 33 °C, nights are also warm with an average minimum temperature of 26 °C, and relative humidity is up to 80%.

Sightseeing

Hong Kong is a highly dynamic cosmopolitan city that embraces both Eastern and Western cultures. You will find many attractions towards this compact area with memorable experience.

For more details, please visit the website of Hong Kong Tourism Board at http://www.discoverhongkong.com

During your visit, your may be interested in visiting Sai Kung, a small town and former fishing village close to HKUST campus. The traveling time is around 20 minutes by minibus or bus or taxi. Sai Kung is fairly famous for its fresh seafood as well as scenic country parks.

Around the neighborhood

You can find different shopping malls with restaurants, cinemas, supermarkets, etc. located near MTR stations. Some shopping malls not far from HKUST include East Point City in Hang Hau, Metro City Plaza in Po Lam, Plaza Hollywood in Diamond Hill, Telford Plaza in Kowloon Bay, APM in Kwun Tong, and Festival Walk in Kowloon Tong.

For more information about what to prepare for the trip, please visit the website of Hong Kong Tourism Board.

http://www.discoverhongkong.com/us/plan-your-trip/practicalities/communications/index.jsp

IAS Symposium on Activated Sludge – Past and Next 100 Years
26 – 28 August 2014, Hong Kong
Jockey Club Institute for Advanced Study (IAS), HKUST, Hong Kong

Registration Form

A. Participant's Personal Information *(please complete all fields)*

Name (last name in block letter)	
Title (Prof. / Dr / Mr / Ms / Miss)	
Affiliation	
Position	
Email address	
Correspondence address	

B. Registration Fee

Type	Price	Quantity
Standard	HKD 3,000	
	Total Amount: *(Copy this amount to Credit Card Payment Form below or by cheque or by CASH (HKD) on-site)* ➔	

The registration fee includes whole programe participation, all coffee breaks, conference proceedings and two banquet tickets (for 26, 27 Aug 2014). Please submit the completed registration form to the Symposium Secretariat at Email: iasas100y@ust.hk or fax: (+852)2358-1534 on or before 31 July 2014. (For participants need Hong Kong entry visa application, please kindly register before 30 June 2014 for us to prepare invitation letter for you.)

Credit Card Payment

Please deduct **HKD** _____ from the following ✱ **VISA / MASTER** card:

Card number: _____ - _____ - _____ - _____ [CVV/CVC ✦: _____]

Expiry date (month / year): _____ / _____

Cardholder's name (as shown on the credit card): _____

The above payment is made to the Hong Kong University of Science & Technology as payment of registration fee for _____ (Registrant's full name) for the *IAS Symposium on Activated Sludge – Past and Next 100 Years*.

✱ *Delete as appropriate*
✦ *Card Validation Number (three-digit code on the back of the card). Bank Service Charge may apply.*

Please send the completed registration form to the Symposium Secretariat (Email: iasas100y@ust.hk) **on or before 31 July 2014.** For participants need Hong Kong entry visa application, please kindly register **before 30 June 2014** for us to prepare invitation letter for you.

IAS Symposium on Activated Sludge – Past and Next 100 Years
26 – 28 August 2014, Hong Kong
Jockey Club Institute for Advanced Study (IAS), HKUST, Hong Kong

Cheque Payment

Please make the **Total Amount** payable to The Hong Kong University of Science and Technology
Cheque No.:
Bank Name:
Please mail the cheque with the completed registration form to: Rm 3575, Department of Civil and Environmental Engineering The Hong Kong University of Science and Technology Clear Water Bay, Kowloon Attention: Ms. Chan Ka Chi

C. Supplementary Information (Please take as appropriate ☑)

☐	I would like to participate in Welcoming Dinner on 26 August 2014, 18:30 to 20:30
☐	I would like to participate in Gala Dinner on 27 August 2014, 19:00 to 21:30
☐	I would like to participate in Technical Tour on 28 August 2014, 14:30 to 17:30
☐	I would like to receive official invitation letter for VISA purpose
☐	I would like to receive certificate for Continuing Professional Development (CPD)
☐	I would like to receive registration fee receipt
☐	I would like to use car park services (on first-come-first-serve basis)

Please send the completed registration form to the Symposium Secretariat (Email: iasas100y@ust.hk) **on or before 31 July 2014.** For participants need Hong Kong entry visa application, please kindly register **before 30 June 2014** for us to prepare invitation letter for you.