

IWA-Croucher Foundation Advanced Study Institute (IWA-ASI) Presents Two Parallel Three-day Intensive Lectures on

**Program 1: Sustainability of Water Environment and Water Resources (IWA-ASI 1) and
Program 2: Perspectives of Energy and Resources Saving and Recovery in Wastewater Treatment (IWA-ASI 2)**

June 23-25 2008

Held at

Chiang Chen Lecture Theatre (Lecture Theatre K) and
Mr. and Mrs. Lee Siu Lun Lecture Theatre (Lecture Theatre J)
The Hong Kong University of Science & Technology, Clear Water Bay, Kowloon, Hong Kong, China

PROGRAM SCHEDULE

23 June 2008, Monday		
09:00 – 09:30	Registration near Lecture Theatre J	
09:30 – 09:50	Welcome and Opening Session at Lecture Theatre J (Chair: Prof. G. H. Chen)	
09:30 – 09:40	Welcome Remarks Prof. Tony Eastham, Vice President of HKUST	
09:40 – 09:50	Opening Remarks Prof. Y. K. Tung, Co-Director of the ASI Program	
09:50 – 10:20	Coffee	
	IWA-ASI 1, Lecture Theatre K	IWA-ASI 2, Lecture Theatre J
10:20 – 12:20	Morning Session (Chair: Prof. X. Z. Li)	Morning Session (Chair: Prof. X. D. Li)
10:20 – 11:50	Vortex drops for supercritical stormwater diversion in urban metropolis Prof. Joseph H.W. Lee	Environmental nanotechnology and water treatment Prof. Mark R. Wiesner
11:50 – 12:20	Discussion	Discussion
12:20 – 14:30	Lunch	
14:30 – 17:00	Afternoon Session (Chair: Prof. J. D. Gu)	Afternoon Session (Chair: Prof. Y. Q. Zhao)
14:30 – 16:00	Advanced oxidation process modelling for design and mechanistic studies Prof. John C. Crittenden	Wastewater management strategy in the context of climate change Prof. Keisuke Hanaki
16:00 – 16:30	Coffee	
16:30 – 17:00	Discussion	Discussion
24 June 2008, Tuesday		
08:30 – 09:00	Registration near Lecture Theatre J	
09:00 – 12:45	Morning Session (Chair: Prof. S. K. Khanal)	Morning Session (Chair: Prof. X. Y. Li)
09:00 – 10:30	Application of fundamental photochemical reactor theory in design and analysis of UV reactors Prof. Ernest R. Blatchley III	Direct electricity or hydrogen generation by exoelectrogenic bacteria using microbial fuel cell technologies for wastewater treatment Prof. Bruce E. Logan
10:30 – 11:00	Discussion	Discussion
11:00 – 11:15	Coffee	
11:15 – 12:45	The role of advanced chemical oxidation technologies (AOT) in water reuse practices Prof. Chin-Pao Huang	Innovation and integration of membrane filtration for water and wastewater treatment Prof. Yoshimasa Watanabe
12:45 – 14:15	Lunch	
14:15 – 17:00	Afternoon Session (Chair: Prof. X. R. Zhang)	Afternoon Session (Chair: Ir. T. H. Tai)
14:15 – 14:45	Discussion	Discussion
14:45 – 16:15	Realities of water resources sustainability Prof. Larry W. Mays	Changing paradigms: From wastewater treatment to resource recovery processes Prof. Jurg Keller
16:15 – 16:30	Coffee	
16:30 – 17:00	Discussion	Discussion

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25 June 2008, Wednesday		
08:30 – 09:00	Registration near Lecture Theatre J	
09:00 – 12:45	Morning Session (Chair: Ir. Bobby T. M. Ng)	Morning Session (Chair: Prof. Z. G. Yuan)
09:00 – 10:30	Watershed sources of disinfection byproduct precursors Prof. David A. Reckhow	Emission of water hazards from urban surfaces Prof. Markus A. Boller
10:30 – 11:00	Discussion	Discussion
11:00 – 11:15	Coffee	
11:15 – 12:45	Environmental forensics: Expert work in legal cases Prof. Roger A. Minear	Enhanced anaerobic digestion process for sewage sludge Prof. Hang-Sik Shin
12:45 – 14:15	Lunch	
14:15 – 17:00	Afternoon Session (Chair: Prof. J. Chen)	Afternoon Session (Chair: Prof. T. Zhang)
14:15 – 14:45	Discussion	Discussion
12:45 – 16:15	Hydrosystems risk assessment and management Prof. Yeou-Koung Tung	Sludge: The final frontier Prof. Steve K. Dentel
16:15 – 16:30	Coffee	
16:30 – 17:00	Discussion	Discussion
17:00 – 17:30	Concluding Discussion Forum (Chair: Ir. Alex Kwan and Prof. G. H. Chen)	