

HKWMA International Symposium on

Sustainable Waste Management towards Carbon Neutrality

Conference Proceedings

LT-B, The Hong Kong University of Science and Technology, Clear Water Bay, Hong Kong, China

6-7 June 2024

Organiser:

Co-Organisers:





30th Anniversary HKWMA International Symposium on

Sustainable Waste Management towards Carbon Neutrality

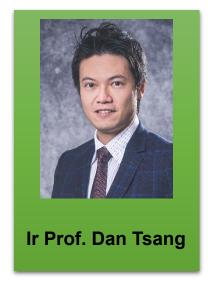
6-7 June 2024

Conference Programme				
6 June 2024 (Venue: Lecture Theatre B (LT-B), The Hong Kong University of Science and Technology)				
08:30-09:00	Registration			
09:00-09:40	Opening Ceremony			
09:00-09:05	Opening Address: 30th Anniversary of HKWMA Ir Prof. Dan Tsang Department of Civil and Environmental Engineering, The Hong Kong University of Science and Technology, Hong Kong			
09:05-09:35	Welcome Speech: The Way Forward for Waste Management in Hong Kong Dr. Samuel Chui, JP Director, Environmental Protection Department, Hong Kong SAR Government			
09:35-09:40	Group Photo (inside Lecture Theatre B)			
09:40-10:10	Keynote Speech: Association of Pacific Rim Universities — Sustainable Waste Management Prof. Yong Sik Ok Program Director and Chair, APRU Sustainable Waste Management Professor, Division of Environmental Science and Ecological Engineering, Korea University, Seoul, Korea			
10:10-10:30	Coffee Break			
10:30-11:00	Keynote Speech: Sustainable Waste Management in San Francisco and California Prof. William Mitch Professor, Department of Civil and Environmental Engineering, Stanford Doerr School of Sustainability, Stanford University, California, USA			
11:00-11:30	Keynote Speech: Waste-to-Energy Treatment and Resource Recovery in China Prof. Jianhua Yan Professor, State Key Laboratory of Clean Energy Utilization, Zhejiang University, Hangzhou, China			
11:30-11:50	Invited Speech: The Decarbonisation Journey of Converting Waste into Renewable Fuels Ir Norman Cheng Past Chairman of HKWMA, Veolia Environmental Services Hong Kong Limited, Hong Kong			
11:50-12:10	Invited Speech: Opportunities from Chemical Wastes to Resources – A 30-Year Testimony from An Independent Recycling Company of Hong Kong Mr. Victor Li Past Chairman of HKWMA, Dunwell Group, Hong Kong			
12:10-13:30	Lunch			
13:30-14:00	Keynote Speech: The Road to Carbon Neutrality in Asia Pacific Prof. Rajasekhar Balasubramanian Provost's Chair Professor, Department of Civil and Environmental Engineering, National University of Singapore, Singapore			
14:00-14:30	Keynote Speech: Importance of Risk Management in Sustainable Waste Management — Too Often Overlooked			

	Prof. Mark Milke			
	Professor, Civil and Natural Resources Engineering, University of Canterbury,			
	Christchurch, New Zealand			
	Invited Speech: Developing Hong Kong's Waste Infrastructure to Turn Waste to			
14:30-14:50	Treasure			
	Ir Andy Chan			
	Technical Director, Binnies Hong Kong Limited, Hong Kong			
14:50-15:10	Invited Speech: Engineering Design for Waste Management Facilities and			
	Building Projects to Achieve Carbon Emission Reduction in Asia			
	Ir Rex Lai			
	Chief Operating Officer, WSP Hong Kong Limited			
15:10-15:30	Coffee Break			
15:30-16:00	Keynote Speech: Recent Advances in Biomass and Plastic Waste Valorization			
	Prof. Shurong Wang			
	Professor, State Key Laboratory of Clean Energy Utilization, Zhejiang University,			
	Hangzhou, China			
16:00-16:30	Keynote Speech: Advanced Pollution Control for Waste-to-Energy Facilities			
	Prof. Yifei Sun			
	Professor, School of Energy and Power Engineering, Beihang University, Beijing, China			
	Keynote Speech: Green Chemistry and Sustainable Biorefinery for Value-Added			
16:30-17:00	Waste Recycling			
	Prof. Laszlo Mika			
10.30 17.00	Professor, Department of Chemical and Environmental Process Engineering,			
	Budapest University of Technology and Economics, Budapest, Hungary			
	Invited Speech: Driving Sustainable Waste Management: Innovations &			
17:00-17:20	Solutions for a Circular Economy			
	Ir Dr. Alex Gbaguidi			
	Head of Environment and Sustainability, SMEC Asia Limited, Hong Kong			
17:20-17:40	Invited Speech: Zero Waste Design Guidelines for High Density Cities — What			
	Hong Kong Could Learn from Others			
	Ms Fiona Sykes			
	Associate, Ove Arup & Partners Hong Kong Ltd, Hong Kong			

7 June 2024 (Venue: Lecture Theatre B (LT-B), The Hong Kong University of Science and Technology)			
	Keynote Speech: Waste Management and ESG in Australia		
09:00-09:30	Prof. Ali Abbas		
	Professor, School of Chemical and Biomolecular Engineering, The University Of		
	Sydney, Sydney, Australia		
	Keynote Speech: Low-Carbon Treatment and Reuse of Industrial Waste		
	Prof. Wengui Li		
09:30-10:00	ARC Future Fellow, Scientia Associate Professor, School of Civil and		
	Environmental Engineering, The University of New South Wales, Sydney,		
	Australia		
10:00-10:20	Invited Speech: A World without Waste: Our Circular Economy Model		
	Ir Kenny Wong		
	Past Chairman of HKWMA, ALBA Integrated Waste Solutions (Hong Kong)		
	Limited, Hong Kong		
	Invited Speech: Reclamation of Mineral Resources from Spent Rechargeable		
10 20 10 10	Batteries		
10:20-10:40	Ir Prof. Kaimin Shih		
	Past Chairman of HKWMA, Department of Civil Engineering, The University of		
10.40.11.00	Hong Kong, Hong Kong		
10:40-11:00	Coffee Break		
	Keynote Speech: Resource Circularity of Critical Metals for Electric Vehicles Prof. Dan Alessi		
11:00-11:30			
	Professor, Faculty of Science - Earth & Atmospheric Sciences, University of Alberta, Edmonton, Canada		
	Keynote Speech: Waste Treatment for Sustainable Product Development in		
	Singapore		
11:30-12:00	Prof. Grzegorz Lisak		
	Director, Residues and Resource Reclamation Centre, Nanyang Technological		
	University, Singapore		
	Keynote Speech: Sustainable Food Waste Recycling for Hotels in Las Vegas		
12.00 12.20	Prof. Eakalak Khan		
12:00-12:30	Professor, Civil and Environmental Engineering and Construction Department,		
	University of Nevada at Las Vegas, Nevada, USA		
	Invited Speech: Unlocking Synergies: Waste Management and Carbon Market		
12:30-12:50	for Sustainable Development		
12.30-12.30	Dr. Grace He		
	Senior Consultant, Climate and Sustainability, Deloitte China, Hong Kong		
12:50-13:10	Invited Speech: The Evolution of Waste Management in Hong Kong in the Past		
	30 Years and Our Directions Forward		
	Ir Louis Chan		
	Past Chairman of HKWMA, China Harbour Engineering Company Limited, Hong		
12:10 14:15	Kong		
13:10-14:15	Lunch Holf Day Site Visit		
14:15-17:30	Half-Day Site Visit		
	EcoPark HK (battery, biochar, WEEE, etc.)		

Keynote Speakers

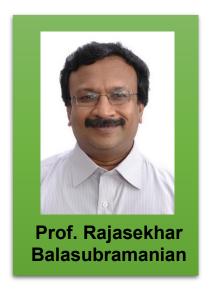


















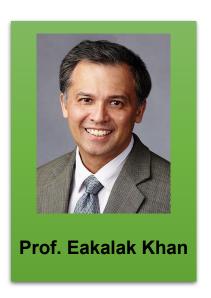












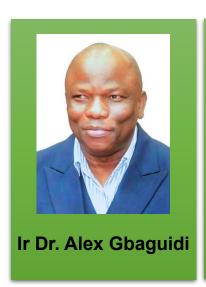
Invited Speakers

















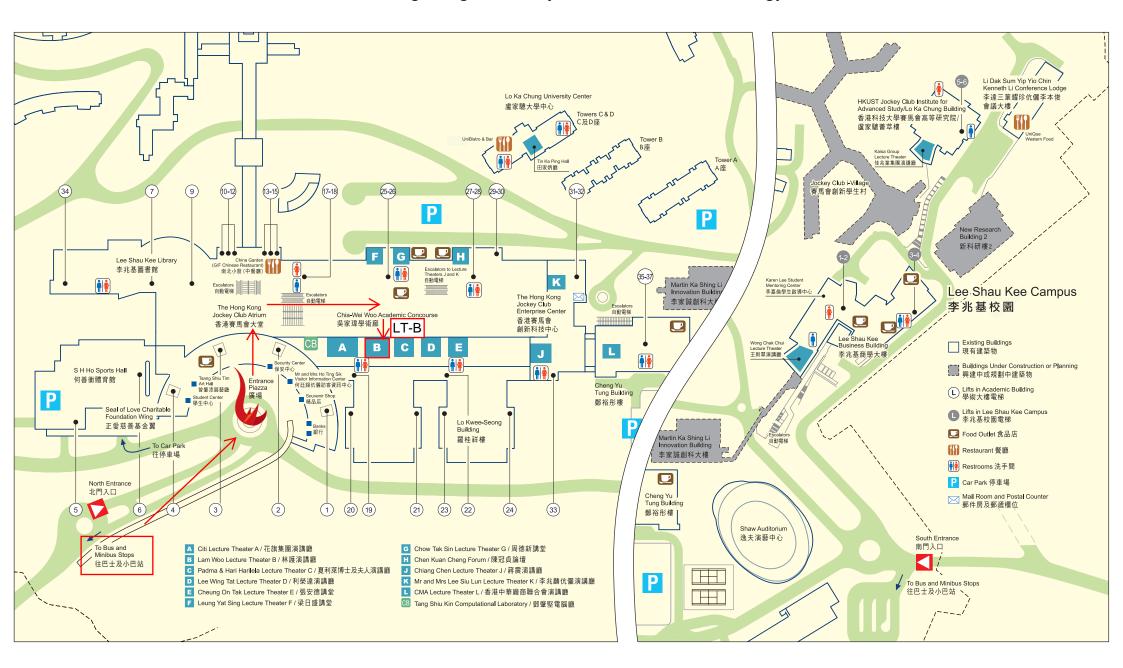






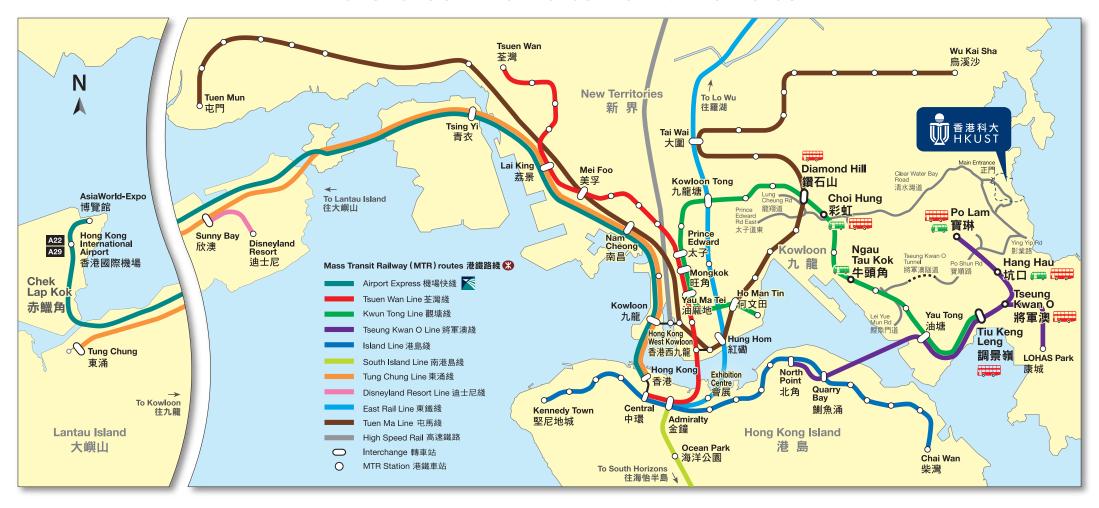
Lecture Theaters and Lift Location

The Hong Kong University of Science and Technology



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綫小巴服務的港鐵車站					
Diamond Hill 鑽石山:	91, 91M, 91P	k			
Choi Hung 彩虹:	91, 91M, 91P	* 🚐 11, 11S#			
Ngau Tau Kok 牛頭角:		≔ 104			
Tiu Keng Leng 調景嶺:	792M				
Hang Hau 坑口:	91M	🚐 11, 11M, 11S#			
Po Lam 寶琳:	₩ 91M	≔ 12, 11S#			
Tseung Kwan O 將軍澳:	792M				

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 MTR station or A29 to Po Lam MTR station, and change for taxi to HKUST.

── Bus Routes 巴士路綫

🚃 Green Minibus Routes 綠色專綫小巴路綫

- * Departing from Diamond Hill Station at 07:55 08:50 to North Bus Station (HKUST) Monday to Friday (except Public Holidays) 星期一至星期五(公眾假期除外),於07:55至08:50由鑽石山鐵路站前往北門巴士站(香港科技大學)
- # Departing from Po Lam (Public Transport Interchange) at midnight 12:00 to 05:00 to North Bus Station (HKUST) 午夜12:00至05:00由實林(公共交通交匯處)前往北門巴士站(香港科技大學)