

Programme Rundown

Day 1 – Thursday, 6 July 2023

08:30 – 09:00	On-site Registration		
09:00 – 09:05	Opening Speech: Prof. Jin-Guang TENG President of The Hong Kong Polytechnic University, China		
09:05 – 09:10	Welcome Speech: Dr Andrew CHAN, BBS, JP Chairman of the RISUD International Advisory Committee Senior Consultant, Arup, HKSAR, China		
09:10 – 09:15	Welcome Speech: Prof. Xiangdong LI Director of Research Institute for Sustainable Urban Development		
09:15 – 09:20	Group Photo		
09:20 – 09:55	Plenary Speaker 1: <i>Topic: Hong Kong's Climate Action Plan and Innovations</i> Mr Kam Sing WONG, GBS, JP Former Secretary for the Environment, Hong Kong Special Administrative Region Government, China		
09:55 – 10:15	Coffee break		
10:15 – 10:50	Plenary Speaker 2: <i>Topic: Integrated Toxicological Analyzer (ITA) & Environmental Risk Assessment</i> Prof. Guibin JIANG Member of the RISUD International Advisory Committee Director of State Key Laboratory of Environmental Chemistry and Ecotoxicology, Chinese Academy of Sciences, China		
10:50 – 11:25	Plenary Speaker 3: <i>Topic: Clinical and toxicological studies on the health effects of air pollution and the challenges ahead</i> Prof. Frank KELLY Humphrey Battcock Chair of Community Health and Policy, School of Public Health, Imperial College London, UK		
11:25 – 12:00	Plenary Speaker 4: <i>Topic: Setting a Course for Carbon Neutrality</i> Prof. Siaw Kiang CHOU Emeritus Professor, College of Design and Engineering, National University of Singapore, Singapore		
12:15 – 14:00	Lunch at Ju Yin House		
14:00 – 18:00	Workshop 1: Air Pollution and Human Health	Workshop 2: Large Floating Infrastructure	Workshop 3: Urban Carbon Neutrality
	Session Chair: Prof. Xiangdong LI	Session Chair: Prof. Xiao Lin ZHAO	Session Chair: Prof. Jerry YAN
18:30 – 20:30	Appreciation Dinner at U.Green, PolyU		

Day 2 – Friday, 7 July 2023

08:30 – 09:00	On-site Registration		
09:00 – 12:00	Workshop 1: Air Pollution and Human Health	Workshop 2: Large Floating Infrastructure	Workshop 3: Urban Carbon Neutrality
	Session Chair: Prof. Xiangdong LI	Session Chair: Prof. Xiaoli DING	Session Chair: Prof. Jerry YAN
12:00 – 12:35	Plenary Session 5: <i>Topic: Ideas on large floating technology for future urban development</i> Mr Ming LIN Chief Scientist of China Communications Construction Co., Ltd., China Academician of Chinese Academy of Engineering, China		
12:35 – 12:45	Closing Remarks		
12:50 – 14:00	Lunch at Ju Yin House, PolyU		

Workshop 1 : Air Pollution and Human Health	
Day 1 – Thursday, 6 July 2023	
14:00 – 14:30	<u>Invited Keynote Talk</u> : Causes for recent trend of air pollution in China <i>Prof. Shu TAO</i> <i>Peking University</i>
14:30 – 15:00	<u>Invited Keynote Talk</u> : Air pollution and daily mortality: from PAPA to MCC studies <i>Prof. Haidong KAN</i> <i>Fudan University</i>
15:00 – 15:20	Identification of aryl hydrocarbon receptor agonists from real environmental samples based on effect-directed analysis <i>Prof. Guangbo QU</i> <i>Chinese Academy of Sciences</i>
15:20 – 15:40	“Smoke Detector” Science for Aerosol Exposure Health Effects <i>Prof. Maosheng YAO</i> <i>Peking University</i>
15:40 – 16:00	Mixed metal components facilitate PM _{2.5} to induce CCR5-mediated neuroinflammation in mouse olfactory bulb <i>Prof. Daqiang YIN</i> <i>Tongji University</i>
16:00 – 16:15	Coffee break
16:15 – 16:35	Unravelling the Black Box between Air Pollution and Public Health for Transformative Air Quality Management <i>Prof. Xiangdong LI</i> <i>The Hong Kong Polytechnic University</i>
16:35 – 16:55	Gaseous pollutants and health: one wind a day keeps the doctor away? <i>Dr Linwei TIAN</i> <i>The University of Hong Kong</i>
16:55 – 17:15	Photochemical oxidation of gasoline vehicle exhaust – volatile organic compound emissions and secondary organic aerosol formation <i>Prof. Kin Fai HO</i> <i>The Chinese University of Hong Kong</i>
17:15 – 17:35	Unravelling the polyaromatic continuum in atmospheric particles <i>Prof. Gan ZHANG</i> <i>Guangzhou Institute of Geochemistry</i>
17:35 – 17:55	Quasi-Experimental Methods for Air Pollution-Health Studies <i>Dr Guojun HE</i> <i>The University of Hong Kong</i>
Day 2 – Friday, 7 July 2023	
09:00 – 09:20	Building mechanistic linkages between PM _{2.5} -induced oxidative potential and chemical composition <i>Prof. Jianzhen YU</i> <i>The Hong Kong University of Science and Technology</i>
09:20 – 09:40	Cytotoxicity of fine particulate matter in different locations in Hong Kong <i>Prof. Hai GUO</i> <i>The Hong Kong Polytechnic University</i>
09:40 – 10:00	What are driving the evolving toxicity of particulate matter generated from residential biomass burning? <i>Dr Ling JIN</i> <i>The Hong Kong Polytechnic University</i>
10:00 – 10:20	Chronic exposure of PM _{2.5} induces impairment in mood and working memory in association with aberrant adult-born neurons in the hippocampus <i>Dr Sonata YAU</i> <i>The Hong Kong Polytechnic University</i>
10:20 – 10:40	Modelling COVID-19 vaccine breakthrough infections in highly vaccinated Israel <i>Dr Daihai HE</i> <i>The Hong Kong Polytechnic University</i>
10:40 – 11:00	Coffee break
11:00 – 11:20	Pollutants and vascular and metabolic dysfunction <i>Prof. Yu HUANG</i> <i>City University of Hong Kong</i>
11:20 – 11:40	Feel the burn: Mental and behavioral responses to air pollution in China <i>Dr Tong LIU</i> <i>National University of Singapore</i>

Workshop 2 : Large Floating Infrastructure	
Day 1 – Thursday, 6 July 2023	
14:00 – 14:30	<u>Invited Keynote Talk</u> : Floating Infrastructure for Offshore Aquaculture Farms <i>Prof. Chien Ming WANG</i> <i>The University of Queensland</i>
14:30 – 15:00	<u>Invited Keynote Talk</u> : Upscaling floating structures technology for climate resilient urban development to address land scarcity <i>Ir Bart ROEFFEN</i> <i>Blue 21</i>
15:00 – 15:30	Possible Floating Structures in Kau Yi Chau Artificial Islands <i>Ir Raymond IP</i> <i>Civil Engineering and Development Department</i>
15:30 – 16:00	Green on Blue – Alternative Development Strategy via pontoons in Hong Kong <i>Mr Rick LAM</i> <i>Architecture Commons</i>
16:00 – 16:20	Coffee break
16:20 – 16:50	<u>Invited Keynote Talk</u> : Design and Construction of the Concrete Floating Pier in Golden Harbor, Incheon <i>Dr Kwanghoe JUNG</i> <i>HYUNDAI Engineering & Construction</i>
16:50 – 17:10	Offshore caisson foundation in sand: from numerical modelling to macroelement design tool <i>Prof. Zhenyu YIN</i> <i>The Hong Kong Polytechnic University</i>
17:10 – 17:30	Main environmental issues associated with floating structures <i>Prof. Hongbin LIU</i> <i>The Hong Kong University of Science and Technology</i>
17:30 – 18:00	Advances in research and application of deep-water floating bridges <i>Prof. Bin CHENG</i> <i>Shanghai Jiao Tong University</i>

Day 2 – Friday, 7 July 2023	
09:00 – 09:30	<u>Invited Keynote Talk</u> : Examples of Floating Infrastructure in Japan - Yumemai Floating Bridge in Osaka and Floating Offshore Wind Turbine in Goto Islands <i>Prof. Tomoaki UTSUNOMIYA</i> <i>Kyushu University</i>
09:30 – 10:00	Light-weight High-Performance Concrete for Floating Structures <i>Prof. Chi-sun POON</i> <i>The Hong Kong Polytechnic University</i>
10:00 – 10:30	Novel FRP Prestressed Concrete Assembled Floating Structure like Bamboo Raft <i>Prof. Peng FENG</i> <i>Tsinghua University</i>
10:30 – 10:50	Coffee break
10:50 – 11:20	<u>Invited Keynote Talk</u> : Trends of Application of Floating Structures in South-East Asia <i>Mr Anil THAPAR</i> <i>Paaras Marine Solutions Pte. Ltd</i>
11:20 – 11:40	Design and development of coiled FRP rope for offshore platform <i>Prof. Xin WANG</i> <i>Southeast University</i>
11:40 – 12:00	Developing Floating Structure Technology (FST) for Hong Kong's Sustainable Growth and Liveability <i>Prof. Xiao Lin ZHAO</i> <i>The Hong Kong Polytechnic University</i>

Workshop 3 : Urban Carbon Neutrality	
Day 1 – Thursday, 6 July 2023	
14:00 – 14:30	<u>Invited Keynote Talk</u> : Big Data and Climate Change: How Cities Can Become More Resilient and Efficient <i>Prof. Markus KRAFT</i> <i>Cambridge Centre for Advanced Research and Education</i>
14:30 – 15:00	<u>Invited Keynote Talk</u> : Autonomous Driving and the Challengers to Future City <i>Prof. Jianping WU</i> <i>Tsinghua University</i>
15:00 – 15:30	Coffee break
15:30 – 16:00	Harnessing the power of data via smart systems engineering towards an intelligent carbon-neutral future <i>Dr Xiaonan WANG</i> <i>Tsinghua University</i>
16:00 – 16:30	Solar Reflectance Index (SRI) based functional nanomaterial solutions to energy smart building envelope <i>Prof. Lin LU</i> <i>The Hong Kong Polytechnic University</i>
16:30 – 17:00	Scientific Machine Learning in Smart Energy <i>Dr Yuntian CHEN</i> <i>Eastern Institute for Advanced Study</i>

Day 2 – Friday, 7 July 2023	
09:00 – 09:30	<u>Invited Keynote Talk</u> : Incorporating Data Analytics into Urban Systems Design for Carbon Neutrality <i>Prof. Perry Pei-Ju YANG</i> <i>Georgia Institute of Technology</i>
09:30 – 10:00	<u>Invited Keynote Talk</u> : Deep Learning for Carbon Neutrality: AI Applications across Scales <i>Prof. Fengqi YOU</i> <i>Cornell University</i>
10:00 – 10:30	Coffee break
10:30 – 11:00	<u>Invited Keynote Talk</u> : Key technologies and applications for smart integrated energy systems <i>Prof. Yingru ZHAO</i> <i>Xiamen University</i>
11:00 – 11:30	Modular Metacognitive Digital Twin Technologies for Greener Cities & Cleaner Mobility <i>Dr Haoran ZHANG</i> <i>Peking University</i>
11:30 – 12:00	Secure Operation of A Low-Carbon Sustainable Urban Grid <i>Dr Siqu BU</i> <i>The Hong Kong Polytechnic University</i>

Symposium Venues

Event	Date & Time	Venue
Opening Ceremony; Plenary Sessions 1 – 4	6 July 2023; 09:00 – 12:00	V322, 3/F, Block V
Workshop 1: Air Pollution and Human Health	6 July 2023; 14:00 – 18:00 7 July 2023; 09:00 – 12:00	FJ301, 3/F, Core F
Workshop 2: Large Floating Infrastructure	6 July 2023; 14:00 – 18:00 7 July 2023; 09:00 – 12:00	FJ302, 3/F, Core F
Workshop 3: Urban Carbon Neutrality	6 July 2023; 14:00 – 18:00 7 July 2023; 09:00 – 12:00	FJ303, 3/F, Core F
Plenary Session 5; Closing Remarks	7 July 2023; 12:00 – 12:45	FJ302, 3/F, Core F

