

3rd International Conference on Thermal Treatment and Resource Recovery

(3rd T²R² Conference, 11-15 June 2026)

Registration

Date: 11 June 2026 (afternoon)

Conference Programme	
Venue: LT-B, The Hong Kong University of Science and Technology	
15:00-17:00	Registration

Opening Plenary Session

Date: 12 June 2026 (morning)

Conference Programme	
Venue: LT-B, The Hong Kong University of Science and Technology	
08:30-09:00	Registration
09:00-09:05	Opening Address Ir Prof. Dan Tsang Professor, Department of Civil and Environmental Engineering, Director, Research Center on Decarbonization Technology, The Hong Kong University of Science and Technology, Hong Kong, China
09:05-09:10	Group Photo (inside LT-B)
09:10-09:30	Keynote Speech: Cements in Waste Valorisation and in Waste Disposal – Are We Asking the Right Questions? Prof. John Provis Professor, PSI Center for Nuclear Engineering and Sciences, Paul Scherrer Institute, Villigen PSI, Switzerland
09:30-09:50	Keynote Speech: Catalysis Strategies to Perform 'Non-thermal' Treatment Prof. Michael S. Wong Professor, Department of Chemical and Biomolecular Engineering, Rice University, Houston, Texas, United States
09:50-10:10	Keynote Speech: From Atoms to Circularity: Ultrafast and Quantum-Limited Probes of Material Transformation Prof. Sergio Carbajo Professor, Department of Electrical and Computer Engineering, University of California, Los Angeles, California, United States
10:10-10:30	Keynote Speech: Impact of Sulfate Concentrations on Energy Recovery During Anaerobic Treatment of Secondary Wastewater Effluent Prof. William Mitch Professor, Department of Civil and Environmental Engineering, Stanford University, Stanford, California, United States
10:30-10:50	Keynote Speech: MC² Reimagined: Mortar and Concrete for Carbon Neutrality through Black Gold Biochar Prof. Ajit Sarmah Professor, Department of Civil and Environmental Engineering, The University of Auckland, Auckland, New Zealand
10:50-11:05	Coffee Break

11:05-11:25	Keynote Speech: Soil as an Asset: Carbon Negative Biochar for Soil Resilience and Voluntary Carbon Markets Prof. Yong Sik Ok Professor, Division of Environmental Science and Ecological Engineering, Korea University, Seoul, Republic of Korea
11:25-11:45	Keynote Speech: Evaluating the Environmental Impacts of Waste Management Using LCA and Machine Learning Methods Prof. Siming You Professor, James Watt School of Engineering, University of Glasgow, Glasgow, United Kingdom
11:45-12:05	Keynote Speech: Advancing the Molecular Trapdoor Mechanism for Precision Adsorption and Selective Sieving Prof. Jin Shang Professor, School of Energy and Environment, City University of Hong Kong, Hong Kong, China
12:05-12:25	Keynote Speech: The Role of Bioplastics in Meeting Global Plastic Regulations: Challenges and Opportunities Prof. Sung Yeon Hwang Professor, Department of Convergent Biotechnology and Advanced Materials Science, Kyung Hee University, Seoul, Republic of Korea
12:25-12:45	Keynote Speech: Designing Photobioreactors for High-Growth Cyanobacteria Prof. Yen Wah Tong Professor, Department of Chemical and Biomolecular Engineering, National University of Singapore, Singapore
12:45-14:00	Lunch

Date: 12 June 2026 (afternoon)

Conference Programme	
Venue: LT-B, The Hong Kong University of Science and Technology	
14:00-14:20	Keynote Speech: Fe-based Functional Materials for Soil Remediation and Crop Growth Prof. Daohui Lin Professor, College of Environmental and Resource Sciences, Zhejiang University, Hangzhou, China
14:20-14:40	Keynote Speech: Engineered Biochars for Enhanced Removal of Short- and Ultrashort-Chain PFAS in Stormwater Prof. Wenqing Xu Professor, Department of Civil and Environmental Engineering, Villanova University, Villanova, Pennsylvania, United States
14:40-15:00	Keynote Speech: AI-Empowered Engineered Biochar for Energy and Environmental Sustainability Prof. Xiangzhou Yuan Professor, School of Energy and Environment, Southeast University, Nanjing, China
15:00-15:20	Keynote Speech: From Submission to Publication: Journal Selection, Peer Review, and Writing Strategies Ms. Vivian Zhang Associate Publisher, Publishing Development, Physical Sciences, Wiley

15:20-15:40	Keynote Speech: FerroAI: A Deep Learning Model to Predict High-Performance Dielectric Materials Prof. Sherry Chen Associate Professor, Department of Mechanical and Aerospace Engineering, The Hong Kong University of Science and Technology, Hong Kong, China
15:40-15:55	Coffee Break
15:55-16:15	Keynote Speech: Cement-Free and Lightweight Ultra-High Performance Concrete (UHPC) Prof. Hailong Ye Associate Professor, Department of Civil Engineering, The University of Hong Kong, Hong Kong, China
16:15-16:35	Keynote Speech: Coupled Modelling of Hydration, Ionic Transport, and Durability Deterioration in Waste Blended Cementitious Materials Prof. Qing-Feng Liu Professor, State Key Laboratory of Ocean Engineering, School of Ocean and Civil Engineering, Shanghai Jiao Tong University, Shanghai, China
16:35-16:55	Keynote Speech: Scaling Biochar Carbon Removal: From Production to Utilization in Construction, with Field Experience and Key Challenges Dr. Sakprayut Sinthupinyo Green Circular Technology Director, The Siam Cement Public Company Limited (SCG), Thailand
16:55-17:15	Keynote Speech: Solvothermal Conversion of Organic Wastes for Sustainable Resource Recovery and Pollution Control Prof. Shicheng Zhang Professor, Department of Environmental Science and Engineering, Fudan University, Shanghai, China
17:15-17:35	Keynote Speech: Innovative Valorization of Biomass Waste for Energy and Advanced Materials Production Prof. Jonathan Wong Professor, Research Center for Eco-Environmental Engineering, Dongguan University of Technology, Dongguan, China
17:35-17:55	Keynote Speech: Valorization of Shell and Biomass Wastes into Biochar for Sustainable Water Treatment Prof. Cheng-Di Dong Professor, Department of Marine Environmental Engineering, Kaohsiung University of Science and Technology, Kaohsiung, Taiwan, China
17:55-18:15	Keynote Speech: Thermal vs. Mechanochemical Activation of Low-Purity Clays Prof. Susan Bernal Lopez Professor, Department of Architecture and Civil Engineering, University of Bath, Bath, United Kingdom

Parallel Session 1: Green Technologies

Date: 13 June 2026 (afternoon)

Conference Programme	
Venue: LT-B, The Hong Kong University of Science and Technology	
14:00-14:20	Keynote Speech: Atomistic Simulations of Cementitious Materials Prof. Yunjian Li Assistant Professor, Department of Civil and Environmental Engineering, The Hong Kong University of Science and Technology, Hong Kong, China
14:20-14:40	Keynote Speech: Histidine-Modulated Highly Dispersed Cu/SiO₂ Catalyst for CO₂ Hydrogenation Prof. Alex Yip Professor, Department of Chemical and Process Engineering, The University of Canterbury, Christchurch, New Zealand
14:40-15:00	Keynote Speech: From Waste to Treasure Using Sustainable Engineering Prof. Hai M. Duong Associate Professor, Department of Mechanical Engineering, National University of Singapore, Singapore
15:00-15:20	Keynote Speech: Development of Biochar-MgO Cement Composites Prof. Jishen Qiu Associate Professor, Department of Civil and Environmental Engineering, The Hong Kong University of Science and Technology, Hong Kong, China
15:20-15:40	Keynote Speech: Measuring What Matters: Methodological and MRV Challenges in Biochar Carbon Removal Prof. Ondřej Mašek Professor, UK Biochar Research Centre, School of GeoSciences, The University of Edinburgh, Edinburgh, United Kingdom
15:40-15:55	Coffee Break
15:55-16:15	Keynote Speech: Insights into Green Processing through Microwave–CO₂–H₂O Synergy Prof. Armando T. Quitain Professor, School of Social Innovation, Kumamoto University, Kumamoto, Japan
16:15-16:35	Keynote Speech: Thermal Treatment and Circular Engineering for Planetary Recovery: Utilizing Waste Resources to Address Water Security and Emerging Contaminants Prof. Manish Kumar Professor, Escuela de Ingeniería y Ciencias, Tecnológico de Monterrey, Campus Monterrey, Nuevo León, Mexico
16:35-16:55	Keynote Speech: Microbial Electrolysis Cell for Hydrothermal Wet Waste Conversion Prof. Chang-Ping Yu Professor, Graduate Institute of Environmental Engineering, Taiwan University, Taipei, Taiwan, China
16:55-17:15	Keynote Speech: Cyanotoxins — A Silent but Significant Threat: Occurrence and Roles of Carbon-Based Materials and Resource Recovery in Control and Management Prof. Eakalak Khan Professor, Civil and Environmental Engineering and Construction Department, University of Nevada, Las Vegas, Nevada, United States

17:15-17:35	Keynote Speech: Effects and Mechanisms of Food Waste-Derived Hydrochar on the Amelioration of Coastal Saline-Alkali Soil Prof. Yuqing Sun Associate Professor, School of Agriculture and Biotechnology, Sun Yat-sen University, Guangzhou, China
17:35-17:55	Keynote Speech: The Development of Integrated CO₂ Capture and Utilisation Prof. Chunfei Wu Professor, School of Chemistry and Chemical Engineering, Queen's University Belfast, Belfast, United Kingdom
17:55-18:15	Keynote Speech: Flash Joule Heating Synthesis of Cobalt/Biochar Composite Derived from Wastes for Efficient Pollutant Degradation Prof. Chongqing Wang Professor, School of Chemical Engineering, Zhengzhou University, Zhengzhou, China
18:15-18:35	Keynote Speech: Chemical/Catalytic Upcycling of Plastics to Fuels and Chemicals Prof. Konstantinos Triantafyllidis Professor, Chemistry Department, King Fahd University of Petroleum and Minerals, Dhahran, Saudi Arabia

Parallel Session 2: Resources Recovery

Date: 13 June 2026 (afternoon)

Conference Programme	
Venue: LT-E, The Hong Kong University of Science and Technology	
14:00-14:20	Keynote Speech: Strategic Conversion and Utilisation of Bioresources for Functional Materials Prof. Thallada Bhaskar Professor, Material Resource Efficiency Division (MRED), CSIR-Indian Institute of Petroleum (IIP), Dehradun, India
14:20-14:40	Keynote Speech: Thermal Pretreatment-Assisted Valorization of Lignocellulosic Biomass for Resource Recovery and Production of Bio-Based Platform Chemicals and Biomaterials Prof. Parameswaran Binod Professor, Microbial Processes and Technology Division, CSIR-National Institute for Interdisciplinary Science and Technology (CSIR-NIIST), Trivandrum, India
14:40-15:00	Keynote Speech: Recent Advancements in Strategies to Improve Anaerobic Digestion of Green and Low-Carbon Energy Resources Prof. Mukesh Kumar Awasthi Associate Professor, College of Natural Resources and Environment, Northwest A&F University, Xianyang, China
15:00-15:20	Keynote Speech: Valorization of Biomass Waste into High-value Materials for Sustainable Energy Storage Prof. Thapanee Sarakonsri Associate Professor, Department of Chemistry, Faculty of Science, Chiang Mai University, Muang, Chiang Mai, Thailand
15:20-15:40	Keynote Speech: Towards a Better Understanding of Using GGBS in Concrete Prof. Xiaohong Zhu Professor, State Key Laboratory of Bridge Safety and Resilience, Beijing University of Technology, Beijing, China

15:40-15:55 Coffee Break	
15:55-16:15	Keynote Speech: Regulating Carbonation to Unlock High-Volume Steel Slag Replacement in Cement Prof. Fei Jin Professor, School of Engineering, Cardiff University, Cardiff, United Kingdom
16:15-16:35	Keynote Speech: Effects and Mechanisms of Polylactic Acid Microplastics on Thallium Migration and Accumulation in the Soil–Rice System Prof. Juan Liu Professor, School of Environmental Science and Engineering, Guangzhou University, Guangzhou, China
16:35-16:55	Keynote Speech: Preparation and Application of Biomass-based Carbon Material Prof. Jingai Shao Professor, Department of New Energy Science and Technology, Huazhong University of Science and Technology, Wuhan, China
16:55-17:15	Keynote Speech: Recent Progress in Agricultural Waste Carbonization and Sustainable Environmental Applications of Multifunctional Biochar Prof. Baojun Yi Associate Professor, College of Engineering, Huazhong Agricultural University, Wuhan, China
17:15-17:35	Keynote Speech: Hybrid Microbial Electrolysis Cell–Anaerobic Digestion System for Enhanced Methane Production from Waste Activated Sludge: Performance, Mechanisms, and Perspectives Prof. Xue-Ting Wang Associate Professor, School of Environment, Harbin Institute of Technology, Harbin, China
17:35-17:55	Keynote Speech: Fragmented BECCS Deployment Threatens Climate and Food Security Prof. Leichang Cao Professor, College of Chemistry and Molecular Sciences, Henan University, Kaifeng, China
17:55-18:15	Keynote Speech: NanoCemGreen: Low-Carbon Blended Cement Enhanced with Sewage Sludge-Derived Nano-Biochar Dr. Monika Raczekiewicz Assistant Professor, Department of Radiochemistry and Environmental Chemistry, Faculty of Chemistry, Maria Curie-Skłodowska University, Lublin, Poland
18:15-18:35	Keynote Speech: Governing AI-Empowered Life Cycle Assessment for Decision Intelligence Prof. Bin Cao Assistant Professor, Korea Biochar Research Center, Division of Environmental Science and Ecological Engineering, Korea University, Seoul, Republic of Korea

Parallel Session 3: Waste Treatment

Date: 13 June 2026 (afternoon)

Conference Programme	
Venue: Room 2406, The Hong Kong University of Science and Technology	
14:00-14:20	Keynote Speech: Environmental Effects Associated with Bioconversion of Organic Solid Waste by Black Soldier Fly Larvae Prof. Gang Luo Professor, Department of Environmental Science and Engineering, Fudan University, Shanghai, China
14:20-14:40	Keynote Speech: Sludge Treatment via Low-temperature Pyrolysis: Fate of PFAS Prof. Jenyuk Lohwacharin Associate Professor, Department of Environmental and Sustainable Engineering, Chulalongkorn University, Bangkok, Thailand
14:40-15:00	Keynote Speech: The Bright and Dark Sides of Nano-Biochar Prof. Patryk Oleszczuk Professor, Department of Radiochemistry and Environmental Chemistry, Faculty of Chemistry, Maria Curie-Skłodowska University, Lublin, Poland
15:00-15:20	Keynote Speech: Translation Pathway from Knowledge into Industry-feasible Technology for Tackling Large Environmental Problems Prof. Longbin Huang Professor, Sustainable Minerals Institute, The University of Queensland, Brisbane, Queensland, Australia
15:20-15:40	Keynote Speech: Molecular-level Approaches to Waste Management Prof. Laszlo T. Mika Professor, Department of Chemical and Environmental Process Engineering, Budapest University of Technology and Economics, Budapest, Hungary
15:40-15:55	Coffee Break
15:55-16:15	Keynote Speech: The Possibility of Using Biochar as a Slow-Release Carbon Source for Denitrification Prof. Hua Zhong Associate Professor, Ningbo Institute of Digital Twin, Eastern Institute of Technology, Ningbo, China
16:15-16:35	Keynote Speech: Plant Microbial Fuel Cells for Renewable Energy, Carbon Neutrality, Sustainable Remediation, and Artificial Intelligence Prof. Chung-Yu Guan Associate Professor, School of Forestry and Resource Conservation, Taiwan University, Taipei, Taiwan, China
16:35-16:55	Keynote Speech: Efficient Conversion of Biomass into High-Value Products via Hydrothermal Liquefaction and Catalytic Upgrading Prof. Yang Cao Associate Professor, College of Engineering, Nanjing Agricultural University, Nanjing, China
16:55-17:15	Keynote Speech: Enhancing the Flowability and Strength of Biochar Concrete through Surface Oxidation of Biochar Dr. Liang Chen Postdoctoral Researcher, Division of Engineering, New York University Abu Dhabi, Abu Dhabi, United Arab Emirates

17:15-17:35	Keynote Speech: Reverse Separation of Critical Metals in Key Components of New Energy Vehicles Prof. Kang Liu Professor, School of Environmental and Municipal Engineering, Qingdao University of Technology, Qingdao, China
17:35-17:55	Keynote Speech: Understanding Green Solvent-Mediated Catalysis for Efficient Biorefinery Design Prof. Shanta Dutta Assistant Professor, Environmental Sciences Program, Asian University for Women, Chittagong, Bangladesh
17:55-18:15	Keynote Speech: Nitrogen-Fortified Nanobiochar and Mineral Fertilizer Synergy Modulate Soil Properties and Crop Yield Prof. Manish Kumar Assistant Professor, Amity Institute of Environmental Sciences, Amity University Uttar Pradesh, Noida, India

Closing Plenary Session

Date: 14 June 2026 (morning)

Conference Programme	
Venue: LT-B, The Hong Kong University of Science and Technology	
08:40-09:00	Keynote Speech: Thermal Treatment of Waste: Biochar as Remedial Option for Polluted Soil & Water Prof. Jörg Rinklebe Professor, School of Architecture and Civil Engineering, University of Wuppertal, Wuppertal, Germany
09:00-09:20	Keynote Speech: Mercury Transformation and Risk Prof. Huan Zhong Professor, School of Environment, Nanjing University, Nanjing, China
09:20-09:40	Keynote Speech: Data-Driven and Region-Aware Approaches for Sustainable Concrete Prof. Weina Meng Associate Professor, Department of Civil, Environmental and Ocean Engineering, Stevens Institute of Technology, Hoboken, New Jersey, United States
09:40-10:00	Keynote Speech: New Approaches Towards Large-Scale Application of Concrete Produced with Regenerated Aggregates and Powder Prof. Yamei Zhang Professor, School of Materials Science and Engineering, Southeast University, Nanjing, China
10:00-10:20	Keynote Speech: The Catalytic Conversion of Biomass for the Synthesis of 5-Hydroxymethylfurfural (HMF) and Its Derivatives Prof. Jun Zhao Associate Professor, Department of Biology, Hong Kong Baptist University, Hong Kong, China
10:20-10:40	Keynote Speech: Latest Trends in Waste Reduction and Recycling in Hong Kong Ir. Andy Chan Chairman, Hong Kong Waste Management Association Technical Director, Binnies Hong Kong Limited, Hong Kong, China
10:40-11:00	Coffee Break
11:00-11:20	Keynote Speech: Electrocatalytic Valorisation of Biomass Lignin for High-Value Chemical Productions Prof. Jason Lam Professor, School of Energy and Environment, City University of Hong Kong, Hong Kong, China
11:20-11:40	Keynote Speech: Nanogenerator Integrated Multifunctional Cementitious Materials for Sustainable and Intelligent Infrastructure Prof. Wenkui Dong Assistant Professor, School of Civil and Environmental Engineering, Nanyang Technological University, Singapore
11:40-12:00	Keynote Speech: Sustainable Circular Economy Pathways for Municipal Solid Waste Prof. Roger Ruan Professor, Center for Biorefining and Department of Bioproducts and Biosystems Engineering, University of Minnesota, St. Paul, Minnesota, United States

12:00-12:20	Keynote Speech: Biochar Addition Affects the Performance of Portland Cement Composites Prof. Scott Chang Professor, Department of Renewable Resources, University of Alberta, Edmonton, Canada
12:20-12:40	Keynote Speech: Optimizing Biomass Thermal Processing to Maximize the Carbon-Negative and Economic Potential of Biochar Technology Prof. Hailong Wang Professor, School of Environment and Chemical Engineering, Foshan University, Foshan, China
12:40-13:00	Keynote Speech: Thermal and Clay-Stabilization Approaches to Promote Carbon Sequestration and Soil Health Benefits of Biowastes Prof. Nanthi Bolan Professor, UWA School of Agriculture and Environment, The University of Western Australia, Perth, Australia
13:00-13:20	Keynote Speech: Unpacking Sustainability Motivations in Hong Kong, and Implications for Circularity Prof. Kira Matus Professor, Division of Environment and Sustainability, Deputy Director, Research Center on Decarbonization Technology, The Hong Kong University of Science and Technology, Hong Kong, China

Oral Presentation Session A

Date: 14 June 2026 (afternoon)

Conference Programme	
Venue: LT-B, The Hong Kong University of Science and Technology	
14:00-14:15	Oral Presentation: Collaborative Catalysis of Single Atoms and Atomic Clusters as Dual Sites for Confined Peroxymonosulfate Activation to Coordinate Radical and Singlet Oxygen Pathways Mengdi Zhao PhD Student, Ningbo Institute of Digital Twin, Eastern Institute of Technology, Ningbo, China
14:15-14:30	Oral Presentation: Interpretable Machine Learning for Predicting Heavy Metal Removal and Optimizing Biochar Characteristics Dr. Wanpeng Chen Postdoctoral Researcher, School of Environmental Science and Engineering, Guangzhou University, Guangzhou, China
14:30-14:45	Oral Presentation: Biogenic Isopropanol as a Renewable Hydrogen Donor for Glucose-to-Sorbitol Transfer Hydrogenation in Resource Recovery Dr. Qiaozhi Zhang Postdoctoral Researcher, Department of Civil and Environmental Engineering, National University of Singapore, Singapore
14:45-15:00	Oral Presentation: Upcycling Steel Slag into Structured Mineral-Polymer Composites with Multifunctional Properties Yilin Zhao PhD Student, School of Materials Science and Engineering, Southeast University, Nanjing, China

15:00-15:15	Oral Presentation: Life Cycle Assessment of Low-Carbon Biobased Materials in Agriculture: Environmental Impact Perspectives Wei Ching Li PhD Student, School of Forestry and Resource Conservation, College of Bioresources and Agriculture, Taiwan University, Taipei, Taiwan, China
15:15-15:30	Oral Presentation: DOM-Mediated Stability of Manganese in Groundwater: Deciphering the Antagonistic Roles of Humic and Fulvic Acids in CaO₂/Biochar Remediation Zijun Ye PhD Student, Institute of Geotechnical Engineering, School of Transportation, Southeast University, Nanjing, China
15:30-15:45	Oral Presentation: Title to be confirmed Zhening Liang PhD Student, School of Environmental Science and Engineering, Guangzhou University, Guangzhou, China
15:45-16:00	Oral Presentation: Towards Near-Zero Thallium Leaching: Eco-Friendly Additives for Enhanced Cement Stabilization Hexin Zhang MPhil Student, School of Environmental Science and Engineering, Guangzhou University, Guangzhou, China
16:00-16:15	Oral Presentation: Manure-Based Organic Amendments Modulate Soil Quality Responses during Biodegradable Plastic Degradation under Field Conditions Geonwook Hwang PhD Student, Division of Environmental Science and Ecological Engineering, Korea University, Seoul, Republic of Korea
16:15-16:30	Oral Presentation: Hydrothermal-Based Green Technologies for Conversion of Monosaccharides to Useful Chemicals Risa Fukuda PhD Student, Graduate School of Science and Technology, Kumamoto University, Kumamoto, Japan

Oral Presentation Session B

Date: 14 June 2026 (afternoon)

Conference Programme	
Venue: LT-E, The Hong Kong University of Science and Technology	
14:00-14:15	Oral Presentation: Topological Defects for Promoting Electron-Shuttling Regime in Nonradical Peroxydisulfate Oxidation Jingyi Gao PhD Student, Ningbo Institute of Digital Twin, Eastern Institute of Technology, Ningbo, China
14:15-14:30	Oral Presentation: Tunable Conversion of Cellulose to Glucose and HMF Using Biomass-Derived Carbon Solid Acids and Molten Salt Hydrates Peixin Wang PhD Student, Department of Biology, Hong Kong Baptist University, Hong Kong, China
14:30-14:45	Oral Presentation: Energy Production and Resource Recovery from Arsenic-Contaminated Soil via Biochar-Amended Plant Microbial Fuel Cells Bo-Wen Wang PhD Student, School of Forestry and Resource Conservation, College of Bioresources and Agriculture, Taiwan University, Taipei, Taiwan, China

14:45-15:00	Oral Presentation: Decoupling Transport, Adsorption, and Carbonation on Ambient CO₂ Sequestration of Biochar-Reactive Magnesia Cement Concrete Yihong Tang PhD Student, Department of Civil and Environmental Engineering, The Hong Kong University of Science and Technology, Hong Kong, China
15:00-15:15	Oral Presentation: Synergistic Remediation of Pb and Cd Contaminated Soil with Modified Sludge and Ryegrass Meiyang Jiang PhD Student, Institute of Geotechnical Engineering, School of Transportation, Southeast University, Nanjing, China
15:15-15:30	Oral Presentation: Microplastic-Derived Dissolved Organic Matter: Carbon Cycle Destabilization and the Limits of Particle-Based Risk Assessment Zi Cheng PhD Student, Tianjin Key Laboratory of Clean Energy and Pollution Control, School of Energy and Environmental Engineering, Hebei University of Technology, Tianjin, China
15:30-15:45	Oral Presentation: Interpretable Machine Learning Prediction of Soil Nutrient Responses to Agricultural Residue-Derived Biochar Yao Fu PhD Student, School of Engineering, Cardiff University, Cardiff, United Kingdom
15:45-16:00	Oral Presentation: Scaling Biodegradable Plastics for a Nature-Positive Future Maheshika Senanayake PhD Student, Korea Biochar Research Center, Division of Environmental Science and Ecological Engineering, Korea University, Seoul, Republic of Korea
16:00-16:15	Oral Presentation: Hierarchical Porous Carbon from <i>Sterculia foetida</i> Biomass for Enhanced Sulfur Confinement in Lithium–Sulfur Batteries Kittiputh Kunniyom MPhil Student, Department of Chemistry, Faculty of Science, Chiang Mai University, Muang, Chiang Mai, Thailand
16:15-16:30	Oral Presentation: Hydrothermal Liquefaction of Microwave-Pretreated Microalgae for Bio-oil Production Ayaka Furusho PhD Student, Graduate School of Science and Technology, Kumamoto University, Kumamoto, Japan

Site Visit 1**Date: 15 June 2026 (morning)**

Conference Programme	
Assembly Point: Entrance Piazza, HKUST	
10:00-13:00	Technical Visit to O-Park1 Departure Time from HKUST: 10:00 Site Visit Time: 10:45-12:15 Return Time to HKUST (Estimated): 13:00

Site Visit 2**Date: 15 June 2026 (afternoon)**

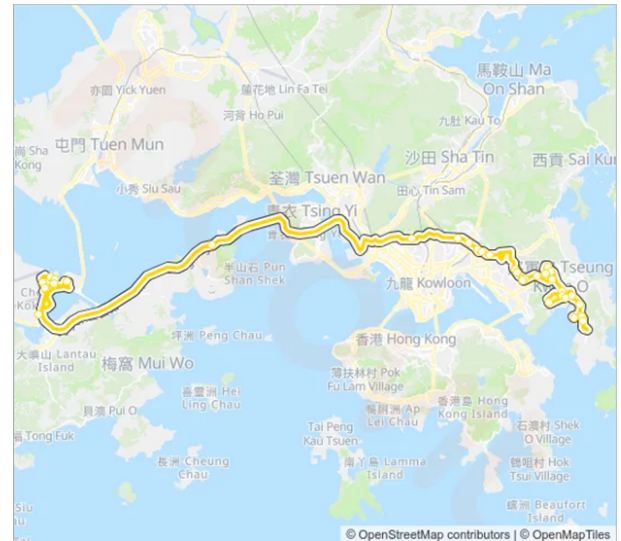
Conference Programme	
Assembly Point: Entrance Piazza, HKUST	
14:00-17:00	Technical Visit to CWTC Departure Time from HKUST: 14:00 Site Visit Time: 14:30-16:00 Return Time to HKUST (Estimated): 17:00

How to reach HKUST

1. From Airport to Tseung Kwan O (TKO):

(1) By Bus (Recommended)

Bus stop	Bus	Travel time	First departure	Last departure	Departure interval	Fare
Airport (Terminal 1)	A28	109 min	11:20	00:20	60 min	HKD 44.0



(2) By MTR

Airport → Hong Kong Station (Airport Express) → Central Station (on foot) → Quarry Bay Station (Island Line) → Tseung Kwan O Station (TKO Line)



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, 91P*
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 巴士路線

Green Minibus Routes 綠色專線小巴路線

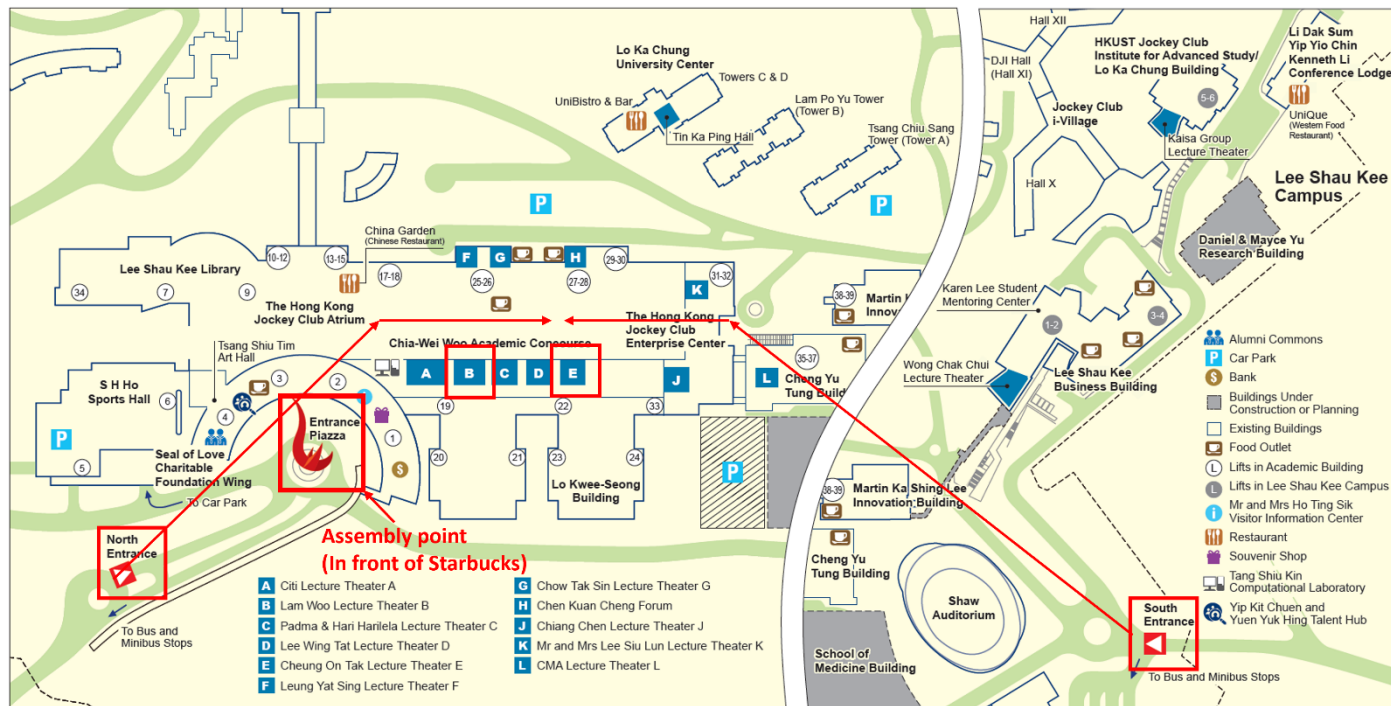
* Departing from Diamond Hill Station at 07:55 – 08:50 to North Bus Station (HKUST) Monday to Friday (except Public Holidays)
星期一至星期五 (公眾假期除外) * 於07:55至08:50由鑽石山鐵路站前往北門巴士站 (香港科技大學)

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由寶琳 (公共交通匯匯) 前往北門巴士站 (香港科技大學)

Lecture Theaters and Lift Locations

Venue: LT-B, LT-E, Room 2406, Site Visits Assembly Point

Take lift 17 to Room 2406



Site Overviews

O-Park1:

O-PARK1, the first organic resources recovery centre, locating at Siu Ho Wan of North Lantau adopts anaerobic digestion technology to convert food waste into biogas (a source of renewable energy similar to natural gas) for electricity generation whilst the residues from the process can be produced as compost for landscaping and agriculture use.

O-PARK1 is capable of handling 200 tonnes of food waste per day.



Chemical Waste Treatment Centre (CWTC):

Chemical waste in Hong Kong is disposed of either on-site where the chemical waste is generated, at the landfill site or at other off-site disposal facilities including the Chemical Waste Treatment Centre (CWTC). All these facilities must be licensed by this department.

The CWTC has been in operation since 1993. The design capacity of the CWTC is 100,000 tonnes per year of chemical waste. The current management and operation of the centre is contracted to Ecospace-Kum Shing Joint Venture.

