

Venue/會議場地

Chiang Chen Studio Theatre, The Hong Kong Polytechnic
University / 香港理工大學蔣震劇院



NSFC-RGC Conference



THE HONG KONG
POLYTECHNIC UNIVERSITY
香港理工大學



The NSFC-RGC Joint Research Scheme Conference
Carbon-Free Energy Utilisation
Empowered by AI



Programme/會議日程

Day 1 (07 February 2026)		
Speakers	Time	Title / Presentation topic
N/A	08:30-09:00	Registration
Chao Christopher 趙汝恒	09:00-09:15	Senior Vice President (Research and Innovation), Conference Chair
Wen Chih-yung 溫志湧	09:15-09:25	Chair Professor, Steering Co-Chair
Qi Fei 齊飛	09:25-09:35	Chair Professor, Steering Co-Chair
Group photo		
Chen Zheng 陳正	09:50-10:10	AI-driven kinetics models for zero-carbon fuels
Ren Zhuyin 任祝寅	10:10-10:30	Development of hydrogen gas turbines empowered by AI
Luo Kun 羅坤	10:30-10:50	The role of high-fidelity simulations and artificial intelligence methods in understanding and modeling
Yang Bin 楊斌	10:50-11:10	Development of reaction mechanisms of zero-carbon fuel oxidation via AI tools
Qi Fei 齊飛	11:10-11:30	Diagnostics for clean combustion and energy applications: New horizons and beyond
Plato Yip Kwong-to 葉廣濤	11:30-11:50	香港地球之友慈善有限公司

Free discussion & Lunch		
Ni Meng 倪萌	14:30-14:50	AI-empowered material discovery for the development of solid oxide cells
Shao Minhua 邵敏華	14:50-15:10	Development of hydrogen fuel cells
Poon Chi-sun 潘智生	15:10-15:30	Net zero concrete: Pathways to sustainable construction
Wen Chih-yung 溫志湧	15:30-15:50	AI-empowered fan-array system control for a sustainable data center
Wang Guanxiong 王冠雄	15:50-16:10	深圳航天科技創新研究院
Free discussion		
Lab tour	16:30-17:00	Aviation Services Research Centre
Lab tour	17:30-18:00	Aviation Engineering Laboratory
Dinner		

Day 2 (08 February 2026)

Tang Chenglong 湯成龍	09:30-09:45	On screening the green hypergolic propellants
An Liang 安亮	09:45-10:00	Electricity generation using liquid fuel cells
Hung David 孔令遜	10:00-10:15	Applications and challenges of AI in fuel injection systems
Huang Xinyan 黃鑫炎	10:15-10:30	Smart safety for battery energy storage system
Chen Zhi 陳幟	10:30-10:45	Machine learning-enabled high-fidelity simulation of zero-carbon fuel reactive flows: OpenFLAME
Ren Wei 任偉	10:45-11:00	Development of novel laser-based diagnostic methods for fast and in situ analysis of zero-carbon fuel products
Wang Yu 王宇	11:00-11:15	Simultaneous measurement of NO and NH ₃ in ultra-high humidity flue gases from ammonia combustion
Zhang Peng 張鵬	11:15-11:30	Multiple-dimensional fuzzy modeling of droplet collision for Eulerian-Lagrangian simulation of spray combustion
Free discussion & Lunch		

Li Jingxuan 李敬軒	14:00-14:15	Recent progress in the prediction, control, and measurement of thermoacoustic instabilities
Li Mung-jung 李孟蓉	14:15-14:30	Ammonia-powered energy station: System integration and process validation through IoT infrastructure
Li Jun 李軍	14:30-14:45	Effects of ammonia-diesel spray interaction on mixture formation characteristics under engine conditions
Cheng Song 成松	14:45-15:00	Reconstruction of real-fluid thermo-physical properties and redefining high-pressure fundamental combustion modeling
An Qiang 安強	15:00-15:15	Optical diagnostics for gas turbine combustion and AI-empowered data processing
Xia Xi 夏溪	15:15-15:30	Application of the Fourier Neural Operator in unsteady combustion
Guan Yu 關昱	15:30-15:45	Data-driven prediction for hydrogen-enriched flame dynamics and thermoacoustic behavior
Tea break & Free discussion		

Organising Committee/會議組織機構

會議主席 Conference Chair	趙汝恒 高級副校長(研究及創新), 香港理工大學	
程序主席 Steering Co-Chairs	溫志湧 香港理工大學	齊飛 上海交通大學
執行主席 Organising Co-Chairs	關昱 香港理工大學	夏溪 上海交通大學
組委會成員 Organising Committees	黃詠恩 (香港理工大學, 研究及創新事務總監) 楊曉鋒 (香港理工大學, 研究及創新事務高級經理) 郝佳傲 (香港理工大學) 王冰 (香港理工大學) 成松 (香港理工大學) 黃鑫炎 (香港理工大學) 孔令遜 (上海交通大學) 顧明明 (上海交通大學) 王國情 (上海交通大學) 徐亮亮 (上海交通大學)	