

Nuclear Forum 2026

RECENT DEVELOPMENTS IN NUCLEAR ENERGY – EXPLORING FUTURE ENERGY AND INNOVATION COLLABORATION

13th July 2026 (Monday)

9:45 am – 5:45 pm

Organiser:



Co-organiser:



Department of Mechanical Engineering

Sponsored by:



Theme : Recent Developments in Nuclear Energy - Exploring future energy and innovation collaboration
Date : 13th July 2026 (Monday)
Time : 9:45 am – 5:45 pm
Place : LI3505, Li Dak Sum Yip Yio Chin Academic Building, City University of Hong Kong, Tat Chee Avenue, Kowloon, Hong Kong

Introduction:

The forum will convene global experts to explore cutting-edge advancements shaping the future of nuclear power, with key focuses on:

- Spotlight breakthrough technologies in fission, fusion, and enabling systems
- Address policy, finance, and public engagement for sustainable nuclear deployment
- Enhance nuclear innovation collaboration between Asia and the World

Key Topics:

- Nuclear Energy for a Sustainable Future: Balancing Clean Power and Global Needs
- Small Modular Reactors and Advanced Fission: Revolutionising Deployment
- The Fusion Horizon: Pathways to Viability
- Enabling Technologies: Superconductors to AI

Registration and Enquires:

The forum is open to physical and on-line applications for registration through <https://micepad.co/e/forum-on-for-hong-kong-nuclear-society-2026/registration/form> until 2nd July 2026. Successful applicants will be notified through email by 7th July 2026. For enquiries, please approach the Hong Kong Nuclear Society at info@hkns.hk, or visit <https://www.hkns.hk/home.html>. The forum is free of charge to the attendants.



Supporting Organisations:



Detailed Rundown

Language: English

Programme

Speaker

Opening

09:45 - 10:00

Opening keynote

TBC

10:00 - 10:05

Welcome remarks

Prof Herman TSUI, HKNS Chairman

10:05 - 10:15

Opening keynote from Sponsor

Mr Jonathan LUK, Director – Commercial & Development (Nuclear), CLP Holdings

10:15 - 10:25

Opening ceremony

Topic 1 : Nuclear Energy for a Sustainable Future: Balancing Clean Power and Global Needs

Focus : Decarbonisation strategies, lifecycle sustainability, public perception of nuclear energy, nuclear safety

10:25 - 10:35

The Next Nuclear Energy Era: Opportunities and Challenges

Mr WD MAGWOOD, Director-General, Nuclear Energy Agency (NEA) of the OECD

10:35 - 11:00

Nuclear Energy for a Sustainable Future: Balancing Clean Power and Global Needs

Prof Way KUO, Emeritus President and University Distinguished Professor for Life, City University of Hong Kong

11:00 - 11:25

The Lifeline of Nuclear Industry – Nuclear Safety

Prof Wing-mo LEUNG, Spokesperson, Hong Kong Meteorological Society and Chairman, Guangdong Nuclear Power Stations Nuclear Safety Consultative Committee

Topic 2 : Small Modular Reactors and Advanced Fission Revolutionising Deployment

Focus : Gen III/IV reactors, supply chain scalability and emerging markets

11:40 - 12:05

High-Temperature Gas Cooled Reactor

Prof. Jiejuan TONG, Institute of Nuclear and New Energy Technology (INET), Tsinghua University

12:05 - 12:30

Power Control of Circulating-Fuel MSRs with Delayed Neutron Precursor Transport

Prof Jie CHENG, College of Nuclear Science and Technology, Harbin Engineering University

12:30 - 12:55

Cost Reduction Opportunities for Small Modular Reactors

Prof Eugene SHWAGERAUS, Department of Engineering and Nuclear Energy Centre, Cambridge University

12:55 - 14:25

Luncheon

Topic 3 : The Future Horizon: Pathways to Viability

Focus : Fusion progress, private ventures and inertial confinement

14:25 - 14:50

From Fundamental Research to Engineering Readiness: China's Pathway Toward Fusion Energy

Dr Zongxiao GUO, Shenzhen University

14:50 - 15:15

TBC

TBC

15:15 - 15:40

UKAEA's Fusion Programme: Aspiration, Inspiration and Perspiration

Prof Rob BUCKINGHAM, Executive Director, United Kingdom Atomic Energy Authority

15:40 - 16:05

TBC

TBC

Topic 4 : Enabling Technologies: Superconductors to AI

Focus : HTS magnets, advanced materials, AI for Smarter Nuclear Plants and digital twins for nuclear systems

16:20 - 16:45

Recent Progress in High-Temperature Superconducting Wires and Their Applications

Prof Yanwei MA, Institute of Electrical Engineering, Chinese Academy of Sciences

16:45 - 17:35

Two presentations in AI applications in nuclear industry (TBC)

17:35 - 17:45

Closing Remarks

Prof Yong YANG, Head of Department of Mechanical Engineering, City University of Hong Kong

Organising Committee

Chairman: Prof Herman TSUI | Advisors: Dr Jolly WONG, Dr Barry BROOKS | Secretary: Dr Louis LIU | Treasurer: Mr Michael YEUNG
Members: Mr Richard FUNG, Prof Alice HU, Prof Wei BAO, Prof Wei WANG, Prof Jiyun ZHAO, Pro Kan MA, Dr Ken YAU