

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
City University of Hong Kong

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 4th July 2026, and late applications will be considered subject to availability until 8th July 2026. Successful applicants will be notified through email by 7th July 2026 and late applications will be notified soon afterwards. 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 - 10:15

Opening keynotes

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

10:15 - 10:25

Welcome remarks

Prof Herman TSUI, HKNS Chairman

10:25 - 10:35

Opening keynote from Sponsor

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

10:35 - 10:50

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

10:50 - 11:00

The Next Nuclear Energy Era: Opportunities and Challenges

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

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

The development of the world's first commercial onshore small modular reactor (SMR)- Ling long One (ACP100)

Dr Danrong SONG, Chief designer of Ling Long One, China National Nuclear Corporation

12:05 - 12:30

High-Temperature Gas Cooled Reactor

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

12:30 - 12:55

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

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

12:55 - 13:20

Cost Reduction Opportunities for Small Modular Reactors

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

13:20 - 14:50

Luncheon

Topic 3 : The Future Horizon: Pathways to Viability

Focus : Fusion progress, private ventures and inertial confinement

14:50 - 15:15

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

Prof Zongxiao GUO, Shenzhen University

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 - 17:10

Digitalization and AI applications on Nuclear Power Engineering

Dr Xidao MAO, Chief Information Officer, China Nuclear Power Engineering Corporation

17:10 - 17:35

Small Modular Reactors: The Low-Carbon Energy Foundation for the AI Era

Dr Xudan SONG, VP, Shanghai Junhe Atomic Technology Co., Ltd

17:35 - 17:45

Closing Remarks

Prof Wei WANG, Department of Mechanical Engineering, City University of Hong Kong

Organising Committee

Chairman: Prof Herman TSUI | Advisors: Dr Jolly WONG, Mr 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