

Nuclear Fusion as a Catalyst for Transformation: From Future Clean Energy to New Value Chains

Speaker 1 :

Ts. Chan Boon Hwee



Ts. Chan Boon Hwee is a technology and energy professional with experience in advanced energy systems, particularly in the field of nuclear fusion and emerging nuclear technologies. During his time at PETRONAS Research, he led initiatives related to nuclear fusion energy, focusing on the potential of fusion as a future clean energy source and its broader implications for industrial transformation and new value chain development. His work spans technology strategy, innovation development, and the intersection between energy transition and next-generation energy infrastructure.

Speaker 2 :

Ir. Associate Professor Ts. Dr. Serene Lock Sow Mun

Associate Professor Ir. Ts. Dr. Serene Lock Sow Mun is a faculty member working at Universiti Teknologi PETRONAS (UTP) whose research focuses on multiscale simulations to develop computational solutions addressing sustainability and decarbonization challenges. She has led the UTP-PETRONAS future positioning team, spearheading the advancement of transformative technologies in unconventional nuclear energy to support clean energy diversification efforts. Her efforts extend to advancing hydrogen and isotope value chains, which are known to be important as sustainable fusion fuel, from high-purity extraction and separation to extreme cryogenics for liquefaction and storage.



4th July 2026, Saturday
9.00 am - 11.00 am

Online

Registration Fees

IEM Students : Free

IEM Members : RM 15

Non-IEM Members : RM70

This webinar session explores how nuclear science and technology, particularly emerging nuclear fusion innovations, can shape Malaysia's future beyond electricity generation. While nuclear applications are already embedded in daily life, from healthcare to agriculture, advances in fusion-related and fusion-adjacent technologies offer new opportunities in advanced materials, clean fuels, high-temperature processes, and workforce development. By engaging early with fusion research and its supporting value chains, Malaysia can strengthen its technological readiness and lay the foundation for a long-term clean energy transition. The session aims to demystify nuclear fusion science and engineering, while linking today's non-energy nuclear applications to tomorrow's fusion-driven energy and industrial solutions.



Website
www.myiem.org.my

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