

WEBINAR SERIES TALK ON NUCLEAR 102 – SMRS AND EMERGING TECHNOLOGIES

Date : 24 July 2025 (Thursday)

Time : 10.00 am - 12.00 pm

Venue : ZOOM Platform

Registration Fees:

- **Student Member : FOC**
- **IEM Member : RM 15.00**
- **Non-Member : RM 70.00**

Synopsis:

Building on Nuclear 101, this session explores next-generation nuclear technologies, starting with a recap of reactor fundamentals before diving into Small Modular Reactors (SMRs) and their advantages, commercialization status, and leading designs like NuScale, BWRX-300, HTR-PM, and ThorCon.

We'll also examine emerging technologies, including thorium reactors, micro-reactors, floating nuclear plants, and nuclear batteries such as NASA's Voyager TEG and China's betavoltaic battery. The session concludes with fusion energy, its challenges, and why it's always '30 years away.'

Join us to explore how nuclear innovations are shaping the future of clean energy.

Speaker: Dr Mohd Syukri bin Yahya

Dr Mohd Syukri bin Yahya is the Director of UNITEN's Institute of Nuclear Energy. Dr Syukri completed his PhD in Nuclear Engineering from Korea Advanced Institute of Science and Technology. He also holds a Master of Science degree in Mechanical Engineering. His research interests are innovative nuclear reactor core design and analysis, and advanced nuclear application.

