



York Society of Engineers

7:30 pm. Thursday 6 February 2025

Live Lecture

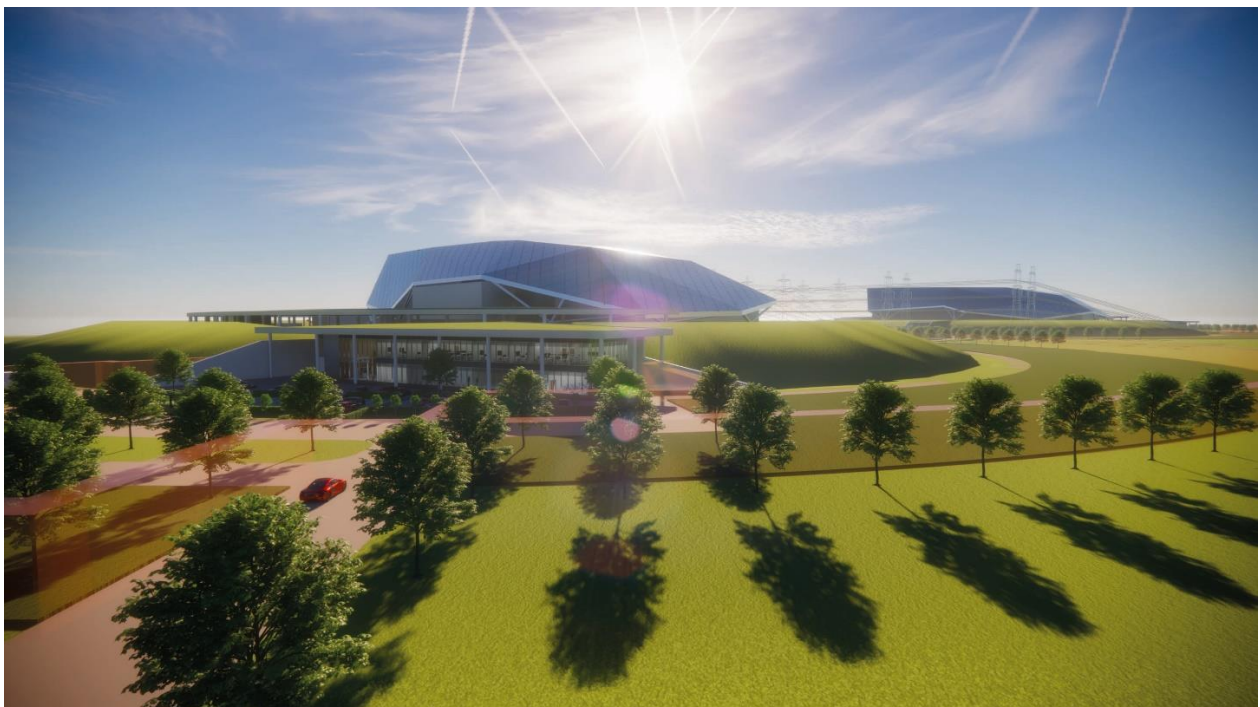
**Room P/L/001, Physics/Electronics Building, Campus West,
University of York**

Small Modular Reactors (SMR)

by

Dr Rob Harvey

Head of Production Systems at Rolls-Royce SMR Ltd



Dr Rob Harvey, Head of Production Systems at Rolls-Royce SMR Ltd will describe this vision to provide Clean, Affordable Energy for All.

The world faces a global energy emergency driven by rising prices, uncertainty, and instability of supply, over reliance on hydrocarbons and older nuclear power stations reaching the end of their operational lives.

New nuclear will play a vital role in bringing reliable, secure and affordable power, decarbonising industry and helping countries to meet their net zero commitments. The Rolls-Royce SMR is a radically new approach to deploying proven nuclear technology, economically and efficiently for a wide range of applications

Modular construction is well established in industries like oil, gas and shipbuilding where engineering, fabrication and assembly of modules is carried out in a controlled factory environment, using advanced manufacturing techniques, before being transported to site for assembly.

The approach results in significant advantages over 'traditional' onsite construction, including improved quality control, shorter construction times and increased safety.

The Rolls-Royce SMRs will operate at very high levels of availability (>92%) for at least 60 years, providing long term stable clean energy, to support both on-grid electricity as well as a range of off-grid clean energy solutions. It will support the decarbonisation of industry and the production of clean fuels to enable the energy transition in the wider heat and transportation sectors.

Please note, this lecture will be a live talk in Room P/L/001, Physics/Electronics Building, Campus West, University of York.

Wearing of masks is encouraged (but not mandatory); taking a lateral flow test prior to the meeting (with negative result) is also recommended. There is plenty of space in the lecture theatre for "social distancing".

Please see the Covid-19 guidance below from the University of York:

The safety of our audience members and staff are our priority, and the University of York continues to have strict cleaning regimes and enhanced ventilation in place.

Please note that the University of York is promoting a message of protect, respect and be kind in relation to Covid-19 and we therefore politely ask that all

attendees consider wearing a face covering whilst moving around indoors, washing hands regularly and taking a lateral flow test in advance of the event. We also ask that you do not attend if you experience any symptoms that could relate to a Covid-19 infection OR if you are self-isolating. Events staff will wear face coverings (unless exempt) and clear signage will be available to access hand sanitizer and hand washing facilities.

The **York Society of Engineers** welcomes applications for membership from those engaged or interested in Engineering. Membership brings several benefits; please search “York Society of Engineers” on your browser, or visit our website directly at <https://www.yorksocietyofengineers.org> for more details and an application form.