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The Paul Bettson Lecture SMALL MODULAR NUCLEAR REACTORS

Matthew Blake
Chief Engineer, Rolls-Royce SMR

Tuesday, 10th January 2023
In the Studio Theatre of the Lichfield Garrick

Nuclear power generation has been made an integral part of the United Kingdom's Net Zero challenge. It will be key to meeting the UK's carbon targets as part of a balanced energy mix and guaranteeing our energy security for the future. Matthew Blake is leading the engineering and scientific effort, for Rolls-Royce, to design a new UK based small nuclear power station and will be taking the audience through some of the key aspects of delivering this exciting UK technology.

The UK has had a long-standing history in nuclear design and manufacture and this lecture will aim to give an overview of Rolls-Royce's involvement in this. From the early pioneering days of nuclear power, in the 1950s, through to now this capability is being exploited in developing the next generation of UK based Small Modular Reactors.

We will look at how the nuclear power station design is being generated, the key technical and scientific attributes, how we are addressing the historic problems with nuclear technology and how the design of this power station aims to remove cost, lead-time and risks typically associated with nuclear power station design, build and operation.

Matthew has 30 years' senior experience across the civil and defence nuclear sector. He has worked for Rolls-Royce, BP and the Ministry of Defence. As Chief Engineer, Matthew is responsible for the engineering development of the SMR and all aspects of plant engineering.

For further information, please see our website at www.LSES.org.uk
Students and Members Free.

Visitors £7.00. Tickets are not issued in advance, please pay at the door.

Members must sign in. Those signing in before 7:50 pm will have precedence over all visitors.

This lecture is expected to finish by 9.30 pm.