SYNOPSIS:

The New Safe Confinement (NSC) will provide a lasting defence against the leak of radioactive material from the reactor which exploded at the Chernobyl nuclear power plant in 1986. When completed, Chernobyl’s New Safe Confinement (NSC) will also represent an extraordinary feat of engineering, tall enough as it will be to house New York’s Statue of Liberty and being assembled off-site and then slid into position. The NSC will enclose both the remains of reactor number four and the ‘sarcophagus’ which was hastily constructed after the original disaster under a huge arch and thus prevent water or snow seeping into the site and dust dispersing from it. The work was carried out by the Novarka consortium, made up of Vinci Construction Grands Projets and Bouygues Construction, and was completed in 2017.

The meeting will cover the background to the disaster, the Lancashire connection and the key design decisions. Particularly it will address the construction methodology based on the environment and condition of the existing sarcophagus.

SPEAKER:

Philip Nelson BSc (Hons) C Eng FIStructE MICE MAPM
Nuvia Ltd

Philip joined UKAEA as a graduate in 1985 prior to becoming a member of the Institution of Structural Engineers in 1991. He has over 30 years of experience within the Nuclear Industry with UKAEA, AEA technology, and now with Nuvia Ltd. Philip is Chief Civil and Structural Engineer and responsible for technical delivery, resource management and staff development of some 70 plus Engineers. He has worked on a wide variety of projects both in the UK and overseas, including the technical review of the proposed New Safe Confinement for Novarka prior to submission to EBRD. Philip is a fellow of the Institution and past chairman of the Lancashire and Cheshire Regional Group.

CPD QUALIFIER

This presentation will qualify for one and a half hours CPD and is recognised by the Institution.