Neutron Users Club 2026

Date: Wednesday 25 November

Times: 10:00 – 18:30

Location: National Physical Laboratory, Hampton Road, Teddington, TW11 0LW

Agenda

10:00 – 10:30	**Registration and Refreshments**
10:30	**Welcome** David Thomas (NPL)
10:35	**New facility for Neutron Metrology at NPL** Mike Bunce (NPL)
11:00	**Fast neutrons at AWE** Simon Rice (AWE)
11:15	**Cavendish Nuclear PHUMS Update** Alexander Dickens (Cavendish Nuclear)
11:30	**An investigation of a highly variable neutron background** Austen Short & Kate Charles (Sellafield Ltd)
11:45	**UKHSA neutron facility upgrades: trials and tribulations** Kerry Olssen & Tim Daniels (UKHSA)
12:00	**Safeguards considerations for intense neutron source technologies** Lee Packer (UKAEA)
12:15	**Lunch and exhibition**

Neutron Users Club 2026

13:00	**Neutron facilities and methods to study the neutron energy dependence of single-event effects in Si and SiC power devices** Carlo Cazzaniga (STFC)
13:15	**From Neutrons to AI: How Measurement Science Can Make AI More Trustworthy** Maya Carlyle (NPL)
13:30	**Challenges in the calibration, operation, quality control and reliability of a processing facility active neutron generator assay system for intermediate-level waste** James Doherty & Paul Mullarkey (NRS Dounreay)
13:45	**Design, modelling and testing of a neutron assay system** Lewis Marriott & Antony Towner (ANTECH)
14:00	**Extending the calibrations of a Cf-shuffler system using Monte Carlo modelling of outlier waste types** Cory Binnersley (Mirion Technologies)
14:15	**Determination of (Neutron) Dose Rate in Pulsed Radiation Fields** Rudiger Collatz (Berthold)
14:30	**Break and exhibition**
15:00	**Development of SiC-based Neutron Detector Heads for High Radiation Environments** Robbie Close (Innovative Physics)
15:15	**Neutron Research and Applications Using the Compact Neutron Source at the University of Bristol** Mahmoud Bakr (University of Bristol)
15:30	**Developing novel neutron detector solutions at the University of Surrey** Jack Henderson (University of Surrey)

Neutron Users Club 2026

15:45	**Neutron diagnostics for the Lithium Breeding Tritium Innovation (LIBRTI) Programme** Gee Bartram (UKAEA)
16:00	**Introduction to the Umbrella Radiation Monitor and its wide application** Hubert Hu (USSL)
16:15	**^{3}He alternative neutron detectors based on inorganic and organic semiconductors** Adrian Bevan (Queen Mary University of London)
16:30	**Drinks reception, exhibition and networking**
18:30	**Close**

Exhibitors

Mirion Technologies	**JCS Nuclear Solutions**
HTSL Group	**AN Technology LTD**
Ludlum Systems	**Berthold Technologies (UK) LTD**
Innovative Physics	**Astral Systems**