Contribution ID: **26** Type: **not specified**

# Talk 3: How pulsed laser SEE testing aids the space qualification of EEE components

*Thursday, 13 June 2024 09:55 (20 minutes)*

Abstract:

As access to heavy ion beam time for radiation testing has become increasingly difficult during recent years, interest in using pulsed lasers to quantify single-event effect rates has steadily grown. Whilst there are limits to the types of device that can be tested with a laser, the technique offer numerous benefits for screening and de-risking, while offering the potential for much faster access to data. These benefits are now enabling the role of laser testing to be defined.
This presentation will outline the principal benefits of using a pulsed laser test system to simulate heavy ion testing and put forward the author's thoughts on how laser testing can fit into the landscape of single-event effects radiation testing. Examples of results obtained via laser testing will be included.

CV:

Richard Sharp has worked in the field of radiation effects for more than 30 years, across the sectors of nuclear, high-energy physics, space and many industrial applications. In 2018, he introduced SEREEL2 to the space industry, providing a pulsed laser single-event effects test solution with the highest quality mechanical and optical performance on the market. He currently owns and runs Radtest Ltd, an independent and respected radiation effects test house located at Harwell in the UK.

**Presenter:** SHARP (RADTEST), Richard

**Session Classification:** Session 4: Alternative Probes for SEE Testing